

2-07-15 Name change:SSM HEALTH

**Sewer
Acct. #:**



4112195400

**Company: SSM CARDINAL GLENNON
CHILDREN'S HOSPITAL**

Address: 1465 South Grand Blvd.

City: St. Louis

State and Zip: MO 631041095

Ind_id	File Code	File Description
64240	40	PERMIT



Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.436.8710 www.stlmsd.com

VIA CERTIFIED MAIL # 70142120000253295641

May 4, 2021

Madison Himelright
Environmental Safety Specialist
SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL
1015 Corporate Square Dr., Suite 110
St. Louis, MO 63132

Re: Discharge Permit No: 1020548900
For premise at: 1465 S Grand Boulevard, Saint Louis, MO 63104

Dear Ms. Himelright:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on May 1, 2020, for the above premise, is hereby revised as per the attached revised permit.

The following revisions were made to the permit:

- Removal of Special Condition A.1: Radioactive Discharge Reporting Requirements. Per previous correspondence on January 11, 2021 and March 26, 2021, radioactive materials are no longer onsite at this facility.
- Removal of Special Condition C.1: Sampling / Reporting Requirement for Ordinance Total Phenols using EPA Method 420.1. This was an allowance made when MSD's small river total phenols local limit was only 0.15 mg/L. However, that limit no longer applies, and all MSD total phenols local limits are 21 mg/L.
- Addition of Special Conditions A.1 & A.2: First Required Report & Permit Year Commencement. These dates for reporting were previously listed under General Condition A.9 but are now listed as individual Special Conditions. Please note that the due dates have not changed from the previous permit.

We have reissued the entire permit for your convenience. Please replace your prior permit with this letter and the revised permit. The terms of the revised permit supersede your prior permit.

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

This revision does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and in no way relieves you of your obligations to achieve the discharge limitations as provided in the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations.
Please contact me at 314.436.8762, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

A handwritten signature in cursive script, appearing to read "Carly Reidt".

Carly Reidt
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit, Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548900

EFFECTIVE DATE: May 01, 2021
EXPIRATION DATE: April 30, 2025

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

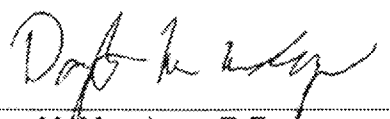
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Carly Reidt
Assistant Engineer



Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 72,175

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water + Kitchen Waste (Food prep) + Hospital Waste + Boiler Blowdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,879

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 8,861

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water (Autoclaves) + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 15048. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 15048. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter.

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical

Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.
2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.
3. As defined in Article II of District Ordinance 15048, significant new or increased discharge means:
 - a. Any discharge from a new process or facility or a new source.
 - b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
 - e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
 - g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 15048, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 15048 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and

Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Send to: DECPT@stlmsd.com

If you do not have access to email, the form may be mailed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

Please do not submit both an emailed report and a mailed report.

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. REPORTING REQUIREMENTS

A.1. First Required Report

The first report under this permit is due by **July 28, 2021**.

A.2. Permit Year Commencement

For non-quarterly self-monitoring requirements, the permit year commences on **April 1, 2021**.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on FIFTY-ONE (51) percent of the used water (on an annual basis) being discharged to the District from account number 00208068. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 004 and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DOCUMENTATION FORM for PERMIT REVISION

Company Name: SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL

Premise Address: 1465 S Grand Boulevard, Saint Louis, MO 63104

Former Permit No: 1020548900 - 1

Original Effective Date: 5/1/2020

Revised Permit No: 1020548900

Revision Effective Date: 5/1/2021

WHY – Cite regulation, policy, etc. and identify any other documents which support the revision:

Per January 11, 2021 letter & March 26th email, radioactive material no longer onsite at this facility. For Total Phenols, this condition is being removed because all Total Phenols local limits = 21 mg/L.

WHAT – Briefly explain what is to be revised and then list the pages & how affected:

Special Condition for quarterly radioactive reporting requirements removed. Special Condition for Ordinance Total Phenols removed. First required report & permit year commencement dates are now Special Conditions, rather than a General Condition.

WHAT – List the Permit Preparation Checklist questions for which answers have changed from last permit, and complete those questions & attach the applicable checklist sheets:

#9 - discharge of radioactive materials, #25 - total phenols (note, this question is not on the new, attached checklist as it was removed from the template.), & #30 - first required report dates.

Pg. # 10 Removed A.1 - Radioactive Discharge Report Requirements.

Pg. # 11 Removed C.1 - Sampling/Reporting Requirement for Ordinance Total Phenols.

Pg. # 10 Added A.1 - First Required Report.

Pg. # 10 Added A.2 - Permit Year Commencement.

SMR Start Dates for any new requirements:

Once/3 mo: _____ or ☒ no new requirements
Once/6 mo: _____ or ☒ no new requirements
Once/year: _____ or ☒ no new requirements

SUPPORTING DOCUMENTS ATTACHED

	YES	NO	N/A
"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permit Preparation Checklist (Only the pages for Q's #9 & # 30)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pollutant & Limitations Documentation Sheets (for Sampling Points _____)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Production-based Standards Calc. Sheets (for Sampling Points _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mass-based Standards Calc. Sheets (for Sampling Points _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Most Strict Limits Sheets (for Sampling Points _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Combined Wastestream Formula Sheets (for Sampling Points _____)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Text of any Customized Special Conditions: If Yes, for which SCs: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other: _____			

Prepared by: C. Reidt	Date: 4/22/2021
Reviewed by: Doug Mendoza	Date: 5/4/2021

CHANGES TO

Special Certifications & General Reports for Special Conditions not tied to specific sample points

ADDITIONS: Special Conditions: # A.1, # A.2, # _____, # _____, # _____, # _____, # _____

Related SMR Certs: # _____, # _____, # _____, # _____, # _____, # _____, # _____

SMR Cert Frequency: [none], [none], [none], [none], [none], [none], [none]

Related General Rpt: _____, _____, _____, _____, _____, _____, _____

Gen Rpt Frequency: [none], [none], [none], [none], [none], [none], [none]

Are the ADDITIONAL SMR certs associated with first permit sample point (001)? YES ☒ NO ☐

DELETIONS: Special Conditions: # E.18, # D.3, # _____, # _____, # _____, # _____, # _____

Related SMR Certs: # _____, # _____, # _____, # _____, # _____, # _____, # _____

Related General Rpt: Rad. discharge report, _____, _____, _____, _____, _____, _____

Were the DELETED SMR certs removed from the first permit sample point (001)? YES ☒ NO ☐

Check here if there are no changes to non-SP-specific Special Certifications or General Reports: ☐

PERMIT PREPARATION CHECKLIST – PART 1
(Fact Sheet Attachment)

Company Name: SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No.: 1020548900

Effective Date: 5/1/2021

Prepared by: C. Reidt

Date: 4/22/2021

REVIEW THE PRETREATMENT DATABASE (iPACS), INDUSTRY FILE AND PERMIT APPLICATION.
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☐ No ☐
If no, add _____ delete: _____
2. Is user in surcharge? Yes ☐ No ☐
If yes, date last certified: _____
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☐ No ☐
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☐
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☐ No ☐
If yes, list acct no., RF and date last updated:
Acct _____ RF _____ Updated _____
Acct _____ RF _____ Updated _____
If yes, Special Condition F.1 applies.
5. Does user discharge water (on-site) from a source not included in the MSD Billing system? Yes ☐ No ☐
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
If yes, is a flow meter used to record the volume discharged from this other source? Yes ☐ No ☐
If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Meter" apply.
If no, SC E.38 applies.
6. Have you established agreement among permit application, water consumption records and iPACS on component flows at each SP, total SP flows and total premise flow? Yes ☐ No ☐
If no, explain _____
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☐
If yes, Application Date: _____
Approval Date: _____, or approved as part of this permit issuance? Yes ☐
(Variances cannot last more than 5 years after approval)
If yes, Parameter(s) _____ at SP(s) _____
If yes, Special Condition C.4 applies.
8. Have any numerical limitations been applied to user, in addition to those already contained in the ordinance? Yes ☐ No ☐
If yes, Parameter(s) _____ at SP(s) _____
Date limit(s) originally applied: _____, or as part of variance above? ☐
If yes, are Special Conditions, other than the standard special conditions, required? Yes ☐ No ☐
If yes, explain under "non-standard special conditions" question below.
9. Does user discharge any radioactive materials? Yes ☐ No ☒
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
10. Does user generate wastes and/or wastewater by genetic engineering research? Yes ☐ No ☐
If yes, Special Condition B.12 applies.
11. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☐ No ☐
If no, explain: _____
If no, is documentation sufficient to use Special Condition?
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or
E.8 ☐ "Sampling Not Required at Permittee with No SP"?
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐
If yes, Special Condition G.1 is necessary.
12. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☐
If yes, Upstream SP # _____ & Downstream SP # _____
If yes, Special Conditions D.11 and E.9 apply.
13. Are there any inactive connections to MSD sewers? Yes ☐ No ☐
If yes, Special Condition E10 applies.
14. Have you verified, in iPACS, the SP location descriptions are complete and adequate? Yes ☐ No ☐
15. Have you verified, in iPACS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☐ No ☐

30. Have First Required Report Due Dates been updated in iPACS? Yes ☒ No ☐
 If yes, first due date for quarterly reports: 7/28/2021
 If yes, Special Condition A.1 applies.
 Are there non-quarterly monitoring or reporting requirements? Yes ☒ No ☐
 If yes, permit year commencement date for non-qtrly req'ts: 4/2/2021
 If yes, Special Condition A.2 apply.
31. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☐
 If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.
 List those that are specific to a sampling point on that sampling point's fact sheet, too.
 List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
	A.1	N/A
	A.2	N/A



Metropolitan St. Louis Sewer District

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

March 11, 2020

Madison Himelright
Environmental Safety Specialist
SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL
1015 Corporate Square Dr., Suite 110
St. Louis, MO 63132

Re: Discharge Permit No: 1020548900 - 1
For premise at: 1465 S Grand Boulevard, Saint Louis, MO 63104

Dear Ms. Himelright:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on April 30, 2020.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Removal of silver monitoring at Sample Points 001, 004, & 005.

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8762, if you have any questions.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Carly Reidt
Associate Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

ec: Doug Mendoza

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548900 - 1

EFFECTIVE DATE: May 01, 2020
EXPIRATION DATE: April 30, 2025

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 15048, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Carly Reidt
Associate Engineer

Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,879

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- *

Limits are based on MSD Ordinance 15048 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

**

See Section I.A.2 of the permit conditions.

Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 15048, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 15048.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 15048.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 15048.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 15048.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

C.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 004 and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT INDUSTRIAL USER SELF MONITORING REPORT

PART I: IDENTIFYING INFORMATION

Company Name: **SSM CARDINAL GLENNON CHILDREN'S HOSPITAL**

Effective Date: 05/01/2020

Expiration Date: 04/30/2025

Premise Address: 1465 South Grand Blvd, 63104

□(APR-JUNE)

☐ (JULY-SEPT)

☐(OCT-DEC)

Samples Collected By: _____

Analyses Performed By: _____

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the second page.

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT**

PART I: IDENTIFYING INFORMATION

Company Name: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 1020548900-1

Premise Address: 1465 South Grand Blvd, 63104

Reporting Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY YISCHARGEY (millicuries)
TOTAL ACTIVITY YISCHARGEY :	

PART III: CERTIFICATION STATEMENTS

Place your initials in the box under item c.

Everyone must complete the information under items A & B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS



I certify that to the best of my knowledge & belief, all requirements of 10 CFR Part 20.2003 and 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission and the Missouri Department of Health, respectively, have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print/type name of signing official: _____

Title: _____ Telephone: _____

Signature: _____ Date: _____

radrpt.doc 2/00

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT

☐

Prepared by: C. Reidt

Date: 2/24/2020

RENEWAL

☒

Reviewed by: DMN

Date: 2-18-20

PERMIT NO: 1020548900 - 1

EFFECTIVE DATE: 5/1/2020

EXPIRATION DATE: 4/30/2025

COMPANY NAME: SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL

PREMISE ADDRESS: 1465 S Grand Boulevard, Saint Louis, MO 63104

RELATED ACCOUNT NUMBERS: N/A

TYPE OF OPERATION: Pediatric hospital services

TOTAL NUMBER OF SAMPLING POINTS: 3 or NO SAMPLING POINT

☐

NUMBER OF: ORDINANCE 3

CATEGORICAL

COMBINED

CATEGORICAL INDUSTRY? YES

☐

NO

☒

If Yes, 40 CFR Subpart

PSES PSNS

40 CFR Subpart

PSES PSNS

EXTRA STRENGTH SURCHARGE? YES NO If Yes, BOD COD TSS

☒

RETURN FACTOR?

YES

☒

NO

☐

If Yes, Acct #(s) 208068 RF 0.51

SPECIAL CONDITIONS REQUIRED? YES NO

☒☐

All SMR start dates begin at start of calendar quarter:

same as/containing permit effective date

following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y N

☒

SUPPORTING DOCUMENTS ATTACHED

YES

NO

N/A

"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:

☒☐

Pollutant & Limitations Documentation Sheets:

☒☐

Permit Preparation Checklist:

☒☐

Production-based Standards Calc. Sheets (for Sampling Points)

☐☐☒

Mass-based Standards Calc. Sheets (for Sampling Points)

☐☐☒

Equivalent Concentration Limits Sheets (for Sampling Points)

☐☐☒

Most Strict Limits Sheets (for Sampling Points)

☐☐☒

Combined Wastestream Formula Sheets (for Sampling Points)

☐☐☒

Text of any Customized Special Conditions: If Yes, for which SCs:

☐☐☒

Other:

COMMENTS (Include notations of any significant changes from last permit):

Silver has been removed. Per contact, the hospital is now 100% digital imaging. Attached data from the last five years show that silver has been predominantly non-detect, or present at very low levels. Email correspondance also attached.

SAMPLING POINT REFERENCE NUMBER: 001

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Boiler blowdown + Hospital waste + NCCW + Sanitary + Stormwater

Flow Rate: 72,175 Units: GPD Basis for Flow Rate: 1/13/2020 IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 15048, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	N/A	once 3 mo	Standard	
BOD	Standard	N/A	once 3 mo	Standard for volume, hospital waste	<input type="checkbox"/>
COD	Standard	N/A	once 3 mo	Standard for volume, hospital waste	<input type="checkbox"/>
O&G	Standard	Ordinance 15048	once 3 mo	Standard for volume, hospital waste	
pH	Standard	Ordinance 15048	once 3 mo	Standard for volume, hospital waste	
Temp	Standard	Ordinance 15048	once 3 mo	Standard for volume, hospital waste	
TSS	Standard	N/A	once 3 mo	Standard for volume, hospital waste	<input type="checkbox"/>
Ord. TTO	Some KP organics, standard	Ordinance 15048	once/year	Standard for volume, hospital waste	
Total Phenols	KP, standard for hospitals	Ordinance 15048	once 3 mo	Standard for volume, hospital waste	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # #

List related SMR certs: # # # # # # # #

List related General Rpts: # # # # # # # #

List related General Rpts: # # # # # # # #

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☐ Explain: _____

PERMIT PREPARATION CHECKLIST – PART 1
(Fact Sheet Attachment)

Company Name: SSM HEALTH CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No.: 1020548900 - 1

Effective Date: 5/1/2020

Prepared by: C. Reidt

Date: 2/24/2020

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐
If no, add _____ delete: _____
2. Is user in surcharge? Yes ☐ No ☒
If yes, date last certified: _____
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☐ No ☒
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☐
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐
If yes, list acct no., RF and date last updated:
Acct 1020548900 RF 0.51 Updated 1/17/2018
Acct _____ RF _____ Updated _____
If yes, Special Condition F.1 applies.
5. Does user discharge water (on-site) from a source not included in the MSD Billing system? Yes ☐ No ☒
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
If yes, Is a flow meter used to record the volume discharged from this other source? Yes ☐ No ☐
If yes, SC E.37 and Gen. Rpt. "Calibration of Discharge Flow Meter" apply.
If no, SC E.38 applies.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐
If no, explain _____
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒
If yes, Application Date: _____
Approval Date: _____, or approved as part of this permit issuance? Yes ☐
(Variances cannot last more than 5 years after approval)
If yes, Parameter(s) _____ at SP(s) _____
If yes, Special Condition C.4 applies.
8. Have any numerical limitations been applied to user, in addition to those already contained in the ordinance? Yes ☐ No ☒
If yes, Parameter(s) _____ at SP(s) _____
Date limit(s) originally applied: _____, or as part of variance above? ☐
If yes, are Special Conditions, other than the standard special conditions, required? Yes ☐ No ☐
If yes, explain under "non-standard special conditions" question below.
9. Does user discharge any radioactive materials? Yes ☒ No ☐
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
10. Does user generate wastes and/or wastewater by genetic engineering research? Yes ☐ No ☒
If yes, Special Condition B.12 applies.
11. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐
If no, explain: _____
If no, is documentation sufficient to use Special Condition
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or
E.8 ☐ "Sampling Not Required at Permittee with No SP"?
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐
If yes, Special Condition G.1 is necessary.
12. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒
If yes, Upstream SP # _____ & Downstream SP # _____
If yes, Special Conditions D.11 and E.9 apply.
13. Are there any inactive connections to MSD sewers? Yes ☐ No ☒
If yes, Special Condition E10 applies.
14. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
15. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐

List all the Special Conditions from Part 1 that are applicable to this permit.
List those that are specific to a sampling point on that sampling point's fact sheet, too.
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
Radiation	E.18	N/A
Discharge report		
	D.10	001, 004, 005
	D.3	N/A
	F.1	N/A



**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

March 27, 2015

Greg Hrbacek
Team Leader Plant Operations
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd
St. Louis, MO 63104-1095

Re: Discharge Permit No: 1020548900 - 1
For premise at: 1465 South Grand Blvd., St. Louis, MO 63104

Dear Mr. Hrbacek:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

The terms and conditions of this permit are substantially the same as in the previous permit. You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

Please be aware that an annual permit fee will be added to your monthly sewer bill, or you will receive a separate bill, to cover administrative costs associated with the permit, as provided for under MSD ordinance 12413. The fee is normally added to the last bill of each calendar year, or shortly thereafter.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,
Self-monitoring Report Form, Self-monitoring Report Instructions

cc: Doug Mendoza
Dave Kupke

PRIORITIES PERFORMANCE SERVICE

MSD 036358

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548900 - 1

EFFECTIVE DATE: May 01, 2015
EXPIRATION DATE: April 30, 2020

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

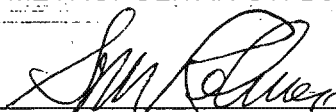
In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer
Assistant Engineer



Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 49,397

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water + Kitchen Waste (Food prep) + Hospital Waste + Boiler Blowdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 5,399

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 6,132

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water (Autoclaves) + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of: The report must be postmarked no later than:

January 1 through March 31

April 28

April 1 through June 30

July 28

July 1 through September 30

October 28

October 1 through December 31

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by July 28, 2015. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
5 curies Hydrogen-3
1 curie Carbon-14
1 curie for all other radioactive materials combined
- (2) For all other materials:
1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on FIFTY-ONE (51) percent of the used water (on an annual basis) being discharged to the District from account number 00208068. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

C.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 004 and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

--- NONE ---

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
All permittees must sign and complete the information below:	
I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Print or type name of signing official: _____	
Title: _____	Telephone: _____
Signature: _____	Date: _____



**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

February 19, 2015

Greg Hrbacek
Team Leader Plant Operations
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104-1095

Re: Discharge Permit No: 1020548900 - 1
For premise at: 1465 South Grand Blvd.
St. Louis, MO 63104

Dear Mr. Hrbacek:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on April 30, 2015.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

The terms and conditions of this permit are substantially the same as in the previous permit. Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer
Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit

cc: Doug Mendoza
Dave Kupke

PRIORITIES	PERFORMANCE	SERVICE
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MSD 036372

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 1020548900 - 1

EFFECTIVE DATE: May 01, 2015
EXPIRATION DATE: April 30, 2020

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer
Assistant Engineer

Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 49,397

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water + Kitchen Waste (Food prep) + Hospital Waste + Boiler Blowdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 5,399

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 6,132

WASTEWATER SOURCE AND CATEGORY: Storm Water + Sanitary + Non-Contact Cooling Water (Autoclaves) + Hospital Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids [mg/L]	***	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise, in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by July 28, 2015. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913
2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on FIFTY-ONE (51) percent of the used water (on an annual basis) being discharged to the District from account number 00208068. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. Sampling / Reporting Requirement for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol
2-chlorophenol
2,4-dichlorophenol
2,4-dimethylphenol

4,6-dinitro-2-methylphenol
2,4-dinitrophenol
2-nitrophenol
4-nitrophenol

pentachlorophenol
phenol
2,4,6-trichlorophenol

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

C.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 004 and 005, may, at times, convey storm water in addition to wastewater regulated by this permit. The self-monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

--- NONE ---

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
All permittees must sign and complete the information below:	
<p>I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p>	
Print or type name of signing official: _____	
Title: _____	Telephone: _____
Signature: _____	Date: _____

DRAFT

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐

RENEWAL ☒

Prepared by: S. Rehmer

Date: 2/17/2015

Reviewed by: MM

Date: 2-17-15

PERMIT NO: 1020548900-1

EFFECTIVE DATE: 5/1/2015

EXPIRATION DATE: 4/30/2020

COMPANY NAME: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

PREMISE ADDRESS: 1465 S Grand Blvd, 63104

RELATED ACCOUNT NUMBERS: n/a

TYPE OF OPERATION: Pediatric hospital services

TOTAL NUMBER OF SAMPLING POINTS: 3 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 3 CATEGORICAL 0 COMBINED 0

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR _____ Subpart _____

PSES ☐ PSNS ☐

40 CFR _____ Subpart _____

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD _____ COD _____ TSS _____

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 00208068 RF 0.51

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☒ same as/containing permit effective date
☐ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:

YES NO N/A

☒ ☐

Pollutant & Limitations Documentation Sheets:

☒ ☐

Permit Preparation Checklist:

☒ ☐

Production-based Standards Calc. Sheets (for Sampling Points _____)

☐ ☐ ☒

Mass-based Standards Calc. Sheets (for Sampling Points _____)

☐ ☐ ☒

Equivalent Concentration Limits Sheets (for Sampling Points _____)

☐ ☐ ☒

Most Strict Limits Sheets (for Sampling Points _____)

☐ ☐ ☒

Combined Wastestream Formula Sheets (for Sampling Points _____)

☐ ☐ ☒

Text of any Customized Special Conditions: If Yes, for which SCs: _____

☐ ☐ ☒

Other: _____

COMMENTS (Include notations of any significant changes from last permit):

n/a

PERMIT NO: 1020548900-1

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	# <u>F.1</u>	# <u>E.18</u>	# <u>D.3</u>	# _____	# _____	# _____	# _____	# _____
List any related SMR certifications:	# _____	# _____	# _____	# _____	# _____	# _____	# _____	# _____
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	# _____	# <u>Rad Discharge</u>	# _____	# _____	# _____	# _____	# _____	# _____
General Report frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]

Are all the SMR certifications listed above associated with first permit sample point (001)? YES ☒ NO ☐ N/A (No Certs) ☐

Check here if there are no non-SP-specific Special Conditions: ☐

SAMPLING POINT REFERENCE NUMBER: 001

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Sanitary, NCCW, Kitchen ww, Boiler blowdown, Stormwater

Flow Rate: 49,397 Units: GPD Basis for Flow Rate: IUQ, 11-7-14

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	
BOD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
O&G	Standard	Ord. 12559	once 3 mo	Standard for volume & hosp waste	
pH	Standard	Ord. 12559	once 3 mo	Std vol & hosp ww, data shows presence	
Temp	Standard	Ord. 12559	once 3 mo	Standard for volume & hosp waste	
TSS	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
Ord. TTO	Standard	Ord. 12559	once/year	Std, some organics are KP	
Phenols (total)	KP, std for health care facilities	Ord. 12559	once 3 mo	Standard	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
Silver (total)	KP, in x-ray waste	Ord. 12559	once 3 mo	Standard, KP, some presence in WW data	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition:	# D.10	#	#	#	#	#	#	#	#
List related SMR certs:	#	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
SMR cert frequency:	#	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List related General Rpts:	#	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
General Rpt frequency:	#	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: _____

SAMPLING POINT REFERENCE NUMBER: 005

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Hospital ww, Sanitary, NCCW, Stormwater

Flow Rate: 6,132 Units: GPD Basis for Flow Rate: IUQ, 11-7-14

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	Standard	
BOD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
O&G	Standard	Ord. 12559	once 3 mo	Standard for volume & hosp waste	
pH	Standard	Ord. 12559	once 3 mo	Std vol & hosp ww, data shows presence	
Temp	Standard	Ord. 12559	once 3 mo	Standard for volume & hosp waste	
TSS	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
Ord. TTO	Standard	Ord. 12559	once/year	Std, some organics are KP	
Phenols (total)	KP, std for health care facilities	Ord. 12559	once 3 mo	Standard	<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
Silver (total)	KP, in x-ray waste	Ord. 12559	once 3 mo	Standard, KP, some presence in WW data	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # # # # #

List related SMR certs: # [none] # [none] # [none] # [none] # [none] # [none] # [none] # [none]

SMR cert frequency: # [none] # [none] # [none] # [none] # [none] # [none] # [none] # [none]

List related General Rpts: # [none] # [none] # [none] # [none] # [none] # [none] # [none] # [none]

General Rpt frequency: # [none] # [none] # [none] # [none] # [none] # [none] # [none] # [none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☐ NO ☒ Explain: _____

PERMIT PREPARATION CHECKLIST - PART 1
(Fact Sheet Attachment)

Company Name: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No.: 1020548900-1

Effective Date: 5/1/2015

Prepared by: S. REHMER

Date: 2/18/2015

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐
If no, add _____ delete: _____
2. Is user in surcharge? Yes ☐ No ☒
If yes, date last certified: _____
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☐ No ☒
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☐
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐
If yes, list acct no., RF and date last updated:
Acct 00208068 RF 0.51 Updated 9/7/2010
Acct _____ RF _____ Updated _____
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐
If no, explain _____
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒
If yes, Application Date: _____
Approval Date: _____, or approved as part of this permit issuance? Yes ☐
(Variances cannot last more than 5 years after approval)
If yes, Parameter(s) _____ at SP(s) _____
If yes, Special Condition C.4 applies.
8. Have any numerical limitations been applied to user, in addition to those already contained in the ordinance? Yes ☐ No ☒
If yes, Parameter(s) _____ at SP(s) _____
Date limit(s) originally applied: _____, or as part of variance above? ☐
If yes, are Special Conditions, other than the standard special conditions, required? Yes ☐ No ☐
If yes, explain under "non-standard special conditions" question below.
9. Does user discharge any radioactive materials? Yes ☒ No ☐
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
10. Does user generate wastes and/or wastewater by genetic engineering research? Yes ☐ No ☒
If yes, Special Condition B.12 applies.
11. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐
If no, explain: _____
If no, is documentation sufficient to use Special Condition
E.5 ☐ "Sampling Not Required at Connections with NO SP and with SP on parts",
E.6 ☐ "Sampling Not Required at Connection with NO SP on it",
E.7 ☐ "Sampling Not Required at Connection with SP on only part of it", or
E.8 ☐ "Sampling Not Required at Permittee with No SP"?
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐
If yes, Special Condition G.1 is necessary.
12. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒
If yes, Upstream SP # _____ & Downstream SP # _____
If yes, Special Conditions D.11 and E.9 apply.
13. Are there any inactive connections to MSD sewers? Yes ☐ No ☒
If yes, Special Condition E.10 applies.
14. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
15. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐

16. Does user have any discharges subject to NPDES permitting regulations? Yes ☐ No ☒
 If yes, list MSD points & corresponding NPDES points: _____
 If yes, Special Condition E.14 applies.
17. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐
 If yes, list points: 001, 004, 005 and note on P&LD sheets.
 If yes, Special Condition D.10 applies.
18. Are any SPs Dry Justified in PIMS? Yes ☐ No ☒
 If yes, list points _____ and note on P&LD sheets.
 If yes, no self-monitoring is required, and Special Condition E.3 applies.
19. Are there SPs where user discharges only non-process wastewater? Yes ☐ No ☒
 If yes, does no self-monitoring requirement / Special Condition E.3 apply? Yes ☐ No ☐
 If yes, list points _____ and note on P&LD sheets.
20. Are there SPs with infrequent discharges that require coordination with the user for MSD to collect samples? Yes ☐ No ☒
 If yes, list points: _____ and note on P&LD sheets.
 If yes, Special Condition D.14 applies.
21. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☐ No ☒
 If yes, list points _____ and note on P&LD sheets.
 If yes, Special Condition D.1 applies.
22. Are there SPs with self-monitoring requirements, but at less than a quarterly frequency, for all parameters? Yes ☐ No ☒
 If yes, list points _____ and note on P&LD sheets.
 If yes, Special Condition E.4 applies.
23. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☐ No ☒
 If yes, list points _____ and explain on P&LD sheets.
 If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☐
 If yes, discuss with inspector (name: _____) and explain why it had been monitored by MSD: _____
24. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒
 If yes, explain problems: _____
 If yes, is a compliance schedule required? Yes ☐ No ☐
 If yes, Special Condition G.1 applies.
 Is supporting documentation attached? Yes ☐ No ☐
 If yes, are any other special requirements required? Yes ☐ No ☐
 Explain: _____
25. Is user required to monitor for Total Phenols at an ordinance SP? Yes ☒ No ☐
 If yes, does Special Condition D.3 for Total Phenols monitoring options apply? Yes ☒ No ☐
26. Has user chosen to employ continuous monitoring techniques for:
 pH? If yes, list points _____. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒
 Temp? If yes, list points _____. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒
 LEL? If yes, list points _____. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒
 If yes for pH or Temp, have corresponding SP limits in PIMS been set to 'Alert Only' and does PIMS Monitoring Special Instructions have notes re. field 'violations'? Yes ☐ No ☐
27. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒
 If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
28. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒
 If yes, describe: _____
 If yes, Special Condition F.4 applies.
 Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐
 Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
29. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒
 If yes, explain: _____
 Which Special Condition applies? _____
 Is supporting documentation attached? Yes ☐ No ☐
 If no, explain: _____
 Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
30. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒
 If yes, have permit title, cover page language, & general conditions been modified? Yes ☐ No ☐
 If yes, Special Conditions B.9, D.13, H.1, and H.2 apply.
31. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒
 If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.
 List those that are specific to a sampling point on that sampling point's fact sheet, too.
 List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
	F.1	n/a
Rad. Discharge	E.18	n/a
	D.10	001, 004, 005
	D.3	n/a



**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

March 23, 2010

Bud Frederick, Team Leader
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

Re: Discharge Permit No: 4112195400 - 3
For premise at: 1465 South Grand Blvd, St. Louis, MO 63104

Dear Mr. Frederick:

The Metropolitan St. Louis Sewer District has developed an Industrial Wastewater Discharge Permit for the above premise. Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added monitoring for total phenols at all sample points, since its use has been found at most health care facilities for both sanitization and for lab use.
- Added Special Condition (SC) C.1 for ordinance total phenols
- Added SC C.2 for no monitoring influenced by storm runoff

You must submit monitoring reports on a quarterly basis, as required by the conditions of this permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. The necessary report form is appended to the permit. It includes the specific certifications required by your permit. Please use this form for your report submittals. Instructions for completing the report form also are enclosed with this letter.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit,
Self-monitoring Report Forms, Self-monitoring Report Instructions

cc: Doug Mendoza
Dave Kupke

PRIORITIES PERFORMANCE SERVICE

MSD 036394

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195400 - 3

EFFECTIVE DATE: May 01, 2010

EXPIRATION DATE: April 30, 2015

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005


In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

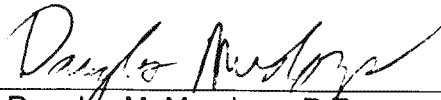
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer
Assistant Engineer



Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 77,748

WASTEWATER SOURCE AND CATEGORY: Sanitary + Boiler Blowdown + Non Contact Cooling Water (Autoclaves) + Cooling Tower Blowdown + Kitchen Waste + Hospital Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 8,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (X-ray, and Laboratory services) + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 10,000

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (Autoclaves) + Hospital Waste + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

<u>For the calendar quarter of:</u>	<u>The report must be postmarked no later than:</u>
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by July 28, 2010. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on seventy-nine (79) percent of the used water (on an annual basis) being discharged to the District from account number 00208068. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. Sampling / Reporting Requirements for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

C.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, and 003, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following. Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

NONE

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: _____ Title: _____ Telephone: _____ Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT - DIVISION OF ENVIRONMENTAL COMPLIANCE

INSTRUCTIONS FOR COMPLETING INDUSTRIAL USER SELF MONITORING REPORT

1. Monitoring reports are to be submitted to MSD on a quarterly basis. Samples must be collected within the calendar quarter and the results submitted to the MSD Division of Environmental Compliance within 28 days after the end of the quarter. You must submit a report for each quarter even if you had no discharge during the quarter.
2. You must use the reporting forms provided by MSD unless you obtain approval from the District to use a company designed form. Any non MSD form must include all of the information and certifications included in the MSD form.
3. The MSD form, properly filled out & signed, constitutes your complete monitoring report. Please do not include a cover letter or any attachments unless they are absolutely essential to explain information on the form or to explain reporting deficiencies or problems. When you sign the report form you will certify that all information contained therein is true, complete and accurate.
4. Print or type all information. Fill in all blanks. Use additional copies of the form if more space is needed.
5. All analyses must be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed for specific parameters. Provide the name of the laboratory that performed the analyses. If the analyses were performed in-house, provide the name and title of the individual responsible for the analyses.
6. Provide the MSD sample point reference numbers for which the data is being submitted. These numbers are contained in your permit. You must use the MSD sample point reference numbers to ensure accurate evaluation of your company's compliance status.
7. You must report analytical results for all the parameters listed in your permit. If you monitor your discharges more often than required by the permit, using approved methods, the results of all such monitoring and any additional flow measurements must be included in the report.
8. For Total Toxic Organics analysis, record the "Total" on the MSD form. Attach a list of the individual toxic organics analyzed and their individual results.
9. In the blanks provided, print or type the parameters and limits listed in your permit. Record the date and time each sample was collected. If a composite sample spans two days, record the dates the compositing period started and ended and record the times the compositing period started and ended. Record the type of sample (use G for grab, C for composite and for flow measurement use M for measured flow, E for estimated flow) and enter the results in the appropriate space. The following example has been provided to show you how to fill in the data.

MSD SAMPLE POINT REFERENCE NUMBERS		⇨	001		002			
DATES ON WHICH SAMPLES WERE COLLECTED		⇨	7-8-93		7-8 to 7-9-93			
TIMES AT WHICH SAMPLES WERE COLLECTED		⇨	8:30 am - 5:00 pm		9:00 am - 8:00 am			
PARAMETER		LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW (G=grab, C=composite, M=measured flow, E=estimated flow)					UNITS
FLOW			E	4800	E	35000		GPD
Chemical Oxygen Demand		—	C	550	C	790		mg/L
Cadmium		0.69	C	0.58	C	0.46		mg/L

10. Report only the results of your analyses. Do not attach copies of laboratory sheets, QA/QC information or other documents unless MSD has specifically requested them or you believe they are essential to the report. However, you must retain all lab sheets and material pertinent to the sampling and analyses for a period of at least 5 years and that MSD may inspect or request copies of these materials during this period.
11. If you have no discharge from a sample point during the reporting quarter, write "No Discharge" across the line marked "Flow."
12. Review the certification statements in Part III and initial those that apply to your facility.
13. Review certification statement A in Part IV and initial it if it applies to your facility.
14. Complete the information under certification statement B in Part IV. Sign and date the report. You must be authorized to sign reporting documents in accordance with MSD ORD. 12559, Article X, Section Three, Paragraph B.
15. Attach any additional reports required (See page two of instructions).
16. Mail completed report to:

METROPOLITAN ST. LOUIS SEWER DISTRICT
 DIVISION OF ENVIRONMENTAL COMPLIANCE
 10 E. GRAND AVE
 ST. LOUIS, MO 63147

If there is any question concerning these reporting requirements, please contact us for clarification or assistance at 314-436-8710.

ADDITIONAL REPORTS

In addition to quarterly self monitoring reports, the General and Special Conditions of your permit require that MSD be advised of certain events or changes at your facility. This is a reminder of those reporting requirements. Please review your permit carefully for the specifics of any of these requirements which may apply to you.

I. GENERAL CONDITION REPORTING REQUIREMENTS

1. If you monitor pH or temperature continuously at any discharge point, you must include, with each quarterly self monitoring report, a summary of pH or temperature excursions for each month in the quarter. See General Condition I.A.7 in your permit.
2. If any sampling, using approved methods, indicates a violation of any permit limitation, MSD must be notified within one business day of your becoming aware of the violation. In addition you must resample the discharge and the results of resampling must be submitted to MSD within 30 days of your becoming aware of the violation. See General Condition I.A.10 in your permit.
3. Any significant new or increased discharge must be reported at least 10 business days prior to the planned increase or addition. See General Condition I.B.2 in your permit.
4. Any problem discharge must be reported to MSD immediately by telephone and a written report submitted within 5 business days. See General Condition I.C.2 in your permit.
5. Any anticipated bypass of pretreatment facilities must be reported to MSD in advance. See General Condition I.D in your permit.

II. SPECIAL CONDITION REPORTING REQUIREMENTS

1. If any of the categorical limitations in your permit are based on production rates, a report on the production rates for each regulated process must accompany each quarterly self monitoring report.
2. If any of the categorical limitations in your permit have been calculated using the Combined Wastestream Formula (CWF), any conditions which may change the calculated limitations must be reported to MSD at least 10 business days prior to the change.
3. If you have been granted a credit for used water which does not enter the sewer, any conditions which may change the amount of that credit must be reported to MSD within 10 business days of your becoming aware of those changes.
4. If your permit contains a schedule of compliance, reports under that schedule must be submitted no later than 14 business days after each date in the schedule.
5. If you plan to divert any wastewater from an existing NPDES discharge point to the District's system, you must notify MSD at least 10 business days prior to the planned change.

III. OTHER INFORMATION REQUIREMENTS

1. If your permit waives monitoring at any sample point specified in your permit, or at any connection point not specified as a sample point in your permit, you must advise MSD any time the character of the waste discharge at any such point changes.
2. If your permit waives monitoring at any inactive connection points, you must advise MSD prior to activating any such point.



**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

February 12, 2010

Bud Frederick, Team Leader
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

Re: Discharge Permit No: 4112195400 - 3
For premise at: 1465 South Grand Blvd.
St. Louis, MO 63104

Dear Mr. Frederick:

The Metropolitan St. Louis Sewer District has completed its review of your application for renewal of the Industrial Wastewater Discharge Permit for the above premise. The current permit expires on April 30, 2010.

Federal regulation 40 CFR 403 requires MSD to issue a permit to you. We based the draft permit on the following: information that you supplied in your Industrial User Questionnaire, on results from previous wastewater samplings and inspections, and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Changes include:

- Added monitoring for total phenols at all sample points, since its use has been found at most health care facilities for both sanitization and for lab use.
- Added Special Condition (SC) C.1 for ordinance total phenols
- Added SC C.2 for no monitoring influenced by storm runoff

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. MSD will deem absence of a response within this period as acceptance of the draft permit, and we will proceed to issue the final permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Draft Industrial Wastewater Discharge Permit
cc: Doug Mendoza
Dave Kupke

PRIORITIES PERFORMANCE SERVICE

MSD 036410

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195400 - 3

EFFECTIVE DATE: May 01, 2010
EXPIRATION DATE: April 30, 2015

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer
Assistant Engineer

Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 77,748

WASTEWATER SOURCE AND CATEGORY: Sanitary + Boiler Blowdown + Non Contact Cooling Water (Autoclaves) + Cooling Tower Blowdown + Kitchen Waste + Hospital Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

- * Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.
- ** See Section I.A.2 of the permit conditions.
- *** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.
- **** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 8,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (X-ray, and Laboratory services) + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 10,000

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (Autoclaves) + Hospital Waste + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [deg C]	60	Instant	Once/3 mo
Total Phenols [mg/L]	21	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, and the total time for all excursions for temperature, pH, and/or lower explosive limit.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report under this permit is due by July 28, 2010. For non-quarterly self-monitoring requirements, the permit year commences on July 1.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on seventy-nine (79) percent of the used water (on an annual basis) being discharged to the District from account number 00208068. The permittee shall notify the District's Division of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

C. SPECIAL SAMPLING AND ANALYTICAL PROCEDURES

C.1. Sampling / Reporting Requirements for Ordinance Total Phenols

Analysis for Total Phenols is to be performed using EPA Method 625. The result to be reported is the arithmetic sum of the concentrations found for the following individual phenolic compounds:

4-chloro-3-methylphenol	4,6-dinitro-2-methylphenol	pentachlorophenol
2-chlorophenol	2,4-dinitrophenol	phenol
2,4-dichlorophenol	2-nitrophenol	2,4,6-trichlorophenol
2,4-dimethylphenol	4-nitrophenol	

As an option, prior to performing the Method 625 analysis, an initial screening may be performed using EPA Method 420.1. If this option is chosen, two separate samples must be collected, one preserved for the method 420.1 analysis and one unpreserved for a method 625 analysis, if necessary. If the screening produces a result which is less than the permit limitation for Total Phenols, the result should be reported as "less than (numerical result)", and the Method 625 analysis need not be performed. If Method 420.1 produces a result which is greater than the permit limitation, the unpreserved sample must be analyzed using Method 625 and the Method 625 result must be reported. Note: The screening analysis must be completed and a result obtained within sufficient time to ensure the Method 625 analysis, if required, can begin within the 7 day holding time of the unpreserved sample.

C.2. No Monitoring When Influenced by Storm Runoff

Sampling points 001, 002, and 003, may, at times, convey storm water in addition to wastewater regulated by this permit. The self monitoring required pursuant to Section I.A.1 of this permit, shall be conducted only at times when the discharge of regulated wastewater will not be influenced by storm water runoff.

THIS IS THE LAST PAGE OF THIS PERMIT

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify the following.
Please review your permit and **PLACE YOUR INITIALS ON THE LINES NEXT TO THE CERTIFICATIONS.**

NONE

PART IV: GENERAL CERTIFICATION STATEMENTS

B	DISCHARGE MONITORING REPORT CERTIFICATION
	All permittees must sign and complete the information below:
	I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
	Print or type name of signing official: _____
	Title: _____ Telephone: _____ Signature: _____ Date: _____

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT ☐
RENEWAL ☒

Prepared by: S. Rehmer
Reviewed by: JMM

Date: 2/9/2010
Date: 2-11-10

PERMIT NO: 4112195400-3 EFFECTIVE DATE: 5/1/2010 EXPIRATION DATE: 4/30/2015

COMPANY NAME: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

PREMISE ADDRESS: 1465 S Grand Blvd, 63104

RELATED ACCOUNT NUMBERS: none

SIC NUMBERS: 8069

TYPE OF OPERATION: Pediatric hospital services

TOTAL NUMBER OF SAMPLING POINTS: 3 or NO SAMPLING POINT ☐

NUMBER OF: ORDINANCE 3 CATEGORICAL ☐ COMBINED ☐

CATEGORICAL INDUSTRY? YES ☐ NO ☒

If Yes, 40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

40 CFR ☐ Subpart ☐

PSES ☐ PSNS ☐

EXTRA STRENGTH SURCHARGE? YES ☐ NO ☒ If Yes, BOD ☐ COD ☐ TSS ☐

RETURN FACTOR? YES ☒ NO ☐ If Yes, Acct #(s) 00208068 RF 0.79

SPECIAL CONDITIONS REQUIRED? YES ☒ NO ☐

All SMR start dates begin at start of calendar quarter: ☐ same as/containing permit effective date
☒ following permit effective date

SMR General Cert. B attached to first permit SP (001) at reporting frequency of once/3mo? Y ☒ N ☐

SUPPORTING DOCUMENTS ATTACHED

	YES	NO	N/A
Pollutant & Limitations Documentation Sheets:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Permit Preparation Checklist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
"Special Certs & Gen Rpts for Spec Conditions not tied to Specific SPs" Sheet:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Production Based Standards Calculation Sheets:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Yes, for Sampling Points: _____			
Most Strict Standards Calculation Sheets:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Yes, for Sampling Points: _____			
Combined Wastestream Calculations Sheets:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Yes, for Sampling Points: _____			
Other: _____			

COMMENTS (Include notations of any significant changes from last permit):

Add D.10 (stormwater conveyed); add D.3 total phenols to smr; set up smr start date for July 1.

SPECIAL CONDITIONS NOT TIED TO SPECIFIC SAMPLE POINTS

Special Condition:	# F.1	# E.18	# D.3	#	#	#	#	#	#
List any related SMR certifications:	#	#	#	#	#	#	#	#	#
SMR certification frequency:	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]	[none]
List any related General Reports:	#	# Rad Discharge	#	#	#	#	#	#	#
General Report frequency:	[none]	once 3 mo	[none]	[none]	[none]	[none]	[none]	[none]	[none]

Are all the SMR certifications listed above associated with first permit sample point (001)?

YES ☒

NO ☐

Check here if there are no non-SP-specific Special Conditions: ☐

SAMPLING POINT REFERENCE NUMBER: 001

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Sanitary, Boiler blowdown, NCCW (autoclaves), Cooling tower blowdown, Kitchen, Hosp waste, Storm
Flow Rate: 77,748 Units: GPD Basis for Flow Rate: IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	standard	
BOD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Standard for volume & kitchen waste	
pH	Standard	12559	once 3 mo	Standard for volume & hosp waste	
Temp	Standard	12559	once 3 mo	Standard for volume & hosp waste	
TSS	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
Ord. TTO	Standard	12559	once/year	Some organics are KP	
Phenols (total)	Added to all health care facilities	12559	once 3 mo	standard	<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
Silver	X-ray waste	12559	once 3 mo	Standard, present in WW	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # # # # #

List related SMR certs: # [none] # [none] # [none] # [none] # [none] # [none]

List related General Rpts: # [none] # [none] # [none] # [none] # [none] # [none]

Is this an Ord or Comb SP w/mon for TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Added SC D10 (storm), added total phenols.

SAMPLING POINT REFERENCE NUMBER: 004

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: Hosp waste (X-ray + Lab), Sanitary, Storm

Flow Rate: 8,000 Units: GPD Basis for Flow Rate: IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	standard	
BOD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Standard for vol & waste, present in WW	
pH	Standard	12559	once 3 mo	Standard for volume & hosp waste	
Temp	Standard	12559	once 3 mo	Standard for volume & hosp waste	
TSS	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
Ord. TTO	Standard	12559	once/year	Some organics are KP	
Phenols (total)	Added to all health care facilities	12559	once 3 mo	standard	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
Silver	X-ray waste	12559	once 3 mo	Standard, present in WW	<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # # #

List related SMR certs: # [none] # [none] # [none] # [none] # [none]

List related General Rpts: # [none] # [none] # [none] # [none] # [none]

Is this an Ord or Comb SP w/mon for Ord TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Added SC D10 (storm), added total phenols.

SAMPLING POINT REFERENCE NUMBER: 005

TYPE: Ord ☒ Cat ☐ Comb ☐

Wastewater Components: NCCW (autoclaves), Hosp waste, Sanitary, Storm

Flow Rate: 10,000 Units: GPD Basis for Flow Rate: IUQ

Pollutants	Basis for inclusion (or exclusion of std polls)	Basis for limitation (Ord 12559, CFR __, etc)	Monitoring frequency	Basis for monitoring freq. (std for vol, etc; innocuous, low flow, etc)	Any OK?
GENERAL:					
FLOW	Standard	n/a	once 3 mo	standard	
BOD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
COD	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
O&G	Standard	12559	once 3 mo	Standard for vol & waste, present in WW	
pH	Standard	12559	once 3 mo	Standard for volume & hosp waste	
Temp	Standard	12559	once 3 mo	Standard for volume & hosp waste	
TSS	Standard	n/a	once 3 mo	Standard for volume & hosp waste	<input type="checkbox"/>
Ord. TTO	Standard	12559	once/year	Some organics are KP	
Phenols (total)	Added to all health care facilities	12559	once 3 mo	standard	<input type="checkbox"/>
PRIORITY/CATEGORICAL:					
			[none]		<input type="checkbox"/>
					<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>
			[none]		<input type="checkbox"/>

Special Condition: # D.10 # # # # # # # #

List related SMR certs: # [none] # [none] # [none] # [none] # [none] # [none]

List related General Rpts: # [none] # [none] # [none] # [none] # [none] # [none]

Is this an Ord or Comb SP w/mon for Ord TTO and that has no TOs on site? YES ☐ NO ☒ If Yes, is SMR Gen Cert. A attached at once/3 mo freq.? YES ☐

Any significant changes? YES ☒ NO ☐ Explain: Added SC D10 (storm), added total phenols.

PERMIT PREPARATION CHECKLIST - PART 1
(Fact Sheet Attachment)

Company Name: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No.: 4112195400-3

Effective Date: 5/1/2010

Prepared by: S. Rehmer

Date: 2/9/2010

REVIEW THE PRETREATMENT DATABASE (PIMS), INDUSTRY FILE AND PERMIT APPLICATION.
ANSWER THESE QUESTIONS & UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐
If no, add _____ delete: _____
2. Is user in surcharge? Yes ☐ No ☒
If yes, date last certified: _____
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☐ No ☒
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☐
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☐
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐
If yes, list acct no., RF and date last updated:
Acct 00208068 RF 0.79 Updated 9/4/2009
Acct _____ RF _____ Updated _____
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒
If yes, Special Condition F.3 & General Report "Discharge Volume for Billing" apply.
6. Have you established agreement among permit application, water consumption records and PIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐
If no, explain _____
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒
If yes Parameter(s) _____ at SP(s) _____
If yes, Special Condition C.4 applies.
8. Does user discharge any radioactive materials? Yes ☒ No ☐
If yes, Special Condition E.18 & General Report "Radiation Discharge" apply.
9. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐
If no, explain: _____
If no, is documentation sufficient to use Spec Cond ☐ E.5, ☐ E.6, ☐ E.7 or ☐ E.8? Yes ☐ No ☐
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐
If yes, Special Condition G.1 is necessary.
10. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒
If yes, Upstream SP # _____ & Downstream SP # _____
If yes, Special Conditions D.11 and E.9 apply.
11. Are there any inactive connections to MSD sewers? Yes ☐ No ☒
If yes, does Special Condition E10. apply? Yes ☐ No ☐
12. Have you verified, in PIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
13. Have you verified, in PIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐
14. Are any SPs Dry Justified? Yes ☐ No ☒
If yes, list points _____ and note on P&LD sheets.
If yes, Special Condition E.3 applies.
15. Do any SPs convey stormwater in addition to regulated wastewater? Yes ☒ No ☐
If yes, list points: 001, 004, 005 and note on P&LD sheets.
If yes, Special Condition D.10 applies.
16. Does user have any discharges subject to NPDES permitting regulations? Yes ☐ No ☒
If yes, list MSD points & corresponding NPDES points: _____
If yes, Special Condition E.14 applies.
17. Are there some SPs where user discharges only non-process wastewater? Yes ☐ No ☒
If yes, does Special Condition E.3 apply? Yes ☐ No ☐
If yes, list points _____ and note on P&LD sheets.
18. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ☐ No ☒
If yes, list points _____ and note on P&LD sheets.
If yes, Special Condition D.1 applies.

19. Are there SPs with less than a quarterly self-monitoring frequency for all parameters? Yes ☐ No ☒
If yes, list points _____ and note on P&LD sheets.
If yes, Special Condition E.4 applies.
20. Can local limits TTO be removed from monitoring at any ordinance SPs? Yes ☐ No ☒
If yes, list points _____ and explain on P&LD sheets.
If yes, does TTO also need to be removed from MSD's monitoring? Yes ☐ No ☐
If yes, discuss with inspector (name: _____) and explain why it had been monitored by MSD: _____
21. Does user have a history of compliance problems at this or a previous location? Yes ☐ No ☒
If yes, is a compliance schedule required? Yes ☐ No ☐
If yes, Special Condition G.1 applies.
Is supporting documentation attached? Yes ☐ No ☐
22. Is user required to monitor for Total Phenols at an ordinance SP? Yes ☒ No ☐
If yes, does Special Condition D.3 apply? Yes ☒ No ☐
23. Has user chosen to employ continuous monitoring techniques for:
pH? If yes, list points _____. SC E.29 & Gen Rpt "Cont-Mon pH Excursions" apply. Yes ☐ No ☒
Temp? If yes, list points _____. SC E.30 & Gen Rpt "Cont-Mon Temp Excursions" apply. Yes ☐ No ☒
LEL? If yes, list points _____. SC E.31 & Gen Rpt "Cont-Mon LEL Excursions" apply. Yes ☐ No ☒
24. Does the company perform any processes for which summaries of activities are needed? Yes ☐ No ☒
If yes, Special Condition E.33 & General Report "Process Activity Summary" apply.
25. Are special billing conditions, other than the standard Special Conditions, needed? Yes ☐ No ☒
If yes, describe: _____
Does General Report "Discharge Volume for Billing" apply? Yes ☐ No ☐
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
26. Are any Special Conditions, other than the standard special conditions, required? Yes ☐ No ☒
If yes, explain: _____
Is supporting documentation attached? Yes ☐ No ☐
Does General Report "Custom Non-Standard" apply? Yes ☐ No ☐
27. Is user a hauled waste industry, discharging its wastewater at the Hauled Waste Station? Yes ☐ No ☒
If yes, have permit title, cover page language, & general conditions been modified? Yes ☐ No ☐
If yes, Special Conditions B.9, D.13, H.1, and H.2 apply.
28. Is user classified as a Categorical Industrial User (CIU)? Yes ☐ No ☒
If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit.
List those that are specific to a sampling point on that sampling point's fact sheet, too.
List those that are not specific to a sampling point on the "Special Conditions Not Tied to Specific SPs" fact sheet, too.

General Report	Special Condition #	Sampling Point #
Rad Disch.	F.1	n/a
	E.18	n/a
	D.10	001, 004, 005
	D.3	n/a



**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

February 20, 2008

Rich Cunningham
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd
St. Louis, MO 63104

Re: Discharge Permit No: 4112195400 - 2
For premise at: 1465 South Grand Blvd.
St. Louis, MO 63104

Dear Mr. Cunningham:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on January 01, 2008, for the above premise, is hereby modified as per the attached modified permit, effective March 01, 2008.

The following modification was made to the permit:

- **Sample Point 005** has been added for this facility, due to the new west building within the hospital complex. The self-monitoring requirements for this new sample point are similar to the other two sample points.

We have reissued the entire permit for your convenience. Please replace your prior permit with this letter and the modified permit. The terms of the modified permit supersede your prior permit.

This modification does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and in no way relieves you of your obligations to achieve the discharge limitations as provided in the permit.

We appreciate your cooperation and support in helping us to comply with federal regulations. Please contact me at 314.436.8756, if you have any questions.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer
Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit
cc: Doug Mendoza
Dave Kupke

PRIORITIES	PERFORMANCE	SERVICE
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MSD 036431

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195400 - 2

EFFECTIVE DATE: March 01, 2008
EXPIRATION DATE: April 30, 2010

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 3
SAMPLING PT. REF NUMBER(S): 001, 004, 005

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.


Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer
Assistant Engineer



Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 70,670

WASTEWATER SOURCE AND CATEGORY: Sanitary + Boiler Blowdown + Cooling Tower Blowdown + Hospital Waste + Kitchen Waste + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once / year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (X-ray, and laboratory services) + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once / year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 005

SAMPLING POINT LOCATION: Manhole 12' N, 10' E from the NW corner of the west building

AVERAGE WASTEWATER FLOW (GPD): 10,000

WASTEWATER SOURCE AND CATEGORY: Non Contact Cooling Water (Autoclave) + Hospital Waste + Sanitary + Storm Water

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Temperature [deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once / year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by April 28, 2008.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on seventy-nine (79) percent of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DOCUMENTATION FORM for PERMIT MODIFICATION

Permit to be Modified:

Company Name: **SSM CARDINAL GLENNON CHILDREN'S HOSPITAL**

Location: **1465 South Grand Blvd, 63104**

Permit No: **4112195400-2**

Original Effective Date: **1/1/2008**

Modification Effective Date: **3/1/2008**

What is to be Modified:

Briefly explain what is to be modified and then list the pages & how affected::

Sample Point 005 has been added for this facility, due to the new west building within the hospital complex.

Pg. # **1** **Effective date, Discharge points**

Pg. # **2** **Volume updated for 001**

Pg. # **3** **Volume updated for 004**

Pg. # **4** **New SP-005 sheet**

Pg. # **6** **First report due date**

Pg. # _____

Pg. # _____

Pg. # _____

Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification:

Facility Reinspection Report, Dave Kupke, dated 01-25-2008. Revised pages 3 & 4 of the IUQ to reflect the discharge quantities for the THREE sample points (received 02-15-2008).

Prepared by: Scott Rehmer	Date: 02-19-2008
Reviewed by: <i>GRM</i>	Date: <i>2-21-08</i>

Permit Modified by: Scott Rehmer	Date: 02-19-2008
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**Metropolitan St. Louis
Sewer District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
Phone: 314.768.6200 www.stlmsd.com

December 28, 2007

Rich Cunningham, Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd
St. Louis, MO 63104

Re: Discharge Permit No: 4112195400 - 1
For premise at: 1465 South Grand Blvd, 63104

Dear Mr. Cunningham:

On December 13, 2007, the Metropolitan St. Louis Sewer District adopted new Sewer Use Ordinance No. 12559. This ordinance becomes effective January 1, 2008, and replaces Ordinance No. 8472. As a result, your Industrial Wastewater Discharge Permit is modified as per the attached modified permit for the above premise. We have reissued the entire permit for your convenience.

Among the changes in the new ordinance, it raises the limits for TTO and it updates the restrictions on radioactive materials to the sewer system. The new restrictions more closely parallel State and Federal regulations.

MSD Ordinance No. 12559 limits the discharge of radioactive materials to sewers to what is allowed under your Nuclear Regulatory Commission and/or Missouri Department of Health licenses. The old ordinance restricted the aggregate discharge from all users to one curie/year for each sewage treatment plant. Please note that all radioactive material discharged to the sewer system must continue to be readily soluble or readily dispersible biological material, in water.

If, at any time, the current level of radioactive materials discharge will increase by 20 percent or more, you must notify MSD, in writing at least ten business days prior to the date of the planned increase. This requirement is contained in Article VIII, Section Six of Ordinance No. 12559.

As a condition of the District's approval, you must continue to submit a completed copy of the Radioactive Materials Discharge Report to the District on a quarterly basis. This approval does not relieve you of any requirements set forth under applicable state or federal regulations. In addition, you must continue to meet all provisions of MSD District Ordinance 12559.

Thank you for your assistance in helping us to comply with state and federal regulations. If you have any questions, please call me at 314.436.8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Scott M. Rehmer, Assistant Engineer

Enclosures: Industrial Wastewater Discharge Permit
cc: Doug Mendoza
Dave Kupke

PRIORITIES PERFORMANCE SERVICE

MSD 036443

METROPOLITAN ST. LOUIS SEWER DISTRICT
DIVISION OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 4112195400 - 1

EFFECTIVE DATE: January 01, 2008

EXPIRATION DATE: April 30, 2010

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd
St. Louis, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: 2

SAMPLING PT. REF NUMBER(S): 001, 004

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 12559, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Scott M. Rehmer
Assistant Engineer



Douglas M. Mendoza, P.E.
Mgr. of Industrial Pretreatment

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 70,890

WASTEWATER SOURCE AND CATEGORY: Sanitary + Non Contact Cooling Water (Autoclaves) + Cooling Tower Blowdown + Hospital Waste + Kitchen Waste

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE LIMITATIONS

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste (X-ray, and laboratory services) + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Biochemical Oxygen Demand (5 Day)	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand	****	Daily Avg	Once/3 mo
Flow [GPD]	***	Daily Avg	***
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
Silver (Total) [mg/L]	0.5	Daily Avg	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids	****	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.844	Instant	Once/year
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo

* Limits are based on MSD Ordinance 12559 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.B of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
- For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH, temperature, and/or lower explosive limit at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-D of District Ordinance 12559. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied or approved by the District) shall be submitted to the District's Division of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 12559. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

<u>For the calendar quarter of:</u>	<u>The report must be postmarked no later than:</u>
January 1 through March 31	April 28
April 1 through June 30	July 28
July 1 through September 30	October 28
October 1 through December 31	January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by April 28, 2008.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Division of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Division of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 12559, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 12559.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 12559.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Division of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to

continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

3. Slug discharge control: The permittee shall develop and implement procedures to control slug discharges, as required by the District, and shall notify the District immediately of any changes at the permittee's facilities, not already addressed in the permittee's slug control requirements, which may affect the potential for a slug discharge.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Division of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 12559, Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Division of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 12559 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than five (5) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 12559.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 12559.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Division of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Division of Environmental Compliance at (314) 436-8710.

SECTION II- SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. SPECIAL CERTIFICATION AND REPORTING REQUIREMENTS

A.1. Radioactive Discharge Reporting Requirements

Permittee is authorized to discharge not more than the following amount of radioactive material per year to the District's sanitary sewers:

- (1) For materials subject to licensing by the Nuclear Regulatory Commission:
 - 5 curies Hydrogen-3
 - 1 curie Carbon-14
 - 1 curie for all other radioactive materials combined
- (2) For all other materials:
 - 1 curie for all radioactive materials combined

Excreta from individuals undergoing medical diagnosis or treatment with radiological materials shall be exempt from this prohibition. Any radioactive material discharged to the wastewater system must be readily soluble (or readily dispersible biological material) in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, either alone or in conjunction with other user's discharges of radioactive materials, causes interference as defined in MSD Ordinance 12559.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. SPECIAL BILLING REPORTING REQUIREMENTS

B.1. Reporting Changes Which Might Impact Return Factor

Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on seventy-nine (79) percent of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DOCUMENTATION FORM for PERMIT MODIFICATION

Permit to be Modified:

Company Name: **SSM CARDINAL GLENNON CHILDREN'S HOSPITAL**

Location: **1465 South Grand Blvd, St. L, MO 63104**

Permit No: **4112195400**

Original Effective Date: **05/01/2005**

Modification Effective Date: **01/01/2008**

What is to be Modified:

Briefly explain what is to be modified and then list the pages & how affected::

Sewer Use Ordinance 12559 in effect; Radioactive & TTO limits up

Pg. # **1** **Effective date**

Pg. # **2-3** **For SP's, Limit change for TTO**

Pg. # **5** **First report due date**

Pg. # **9** **SC E.18 Radioactive Discharge Reporting Requirements**

Pg. # _____

Pg. # _____

Pg. # _____

Pg. # _____

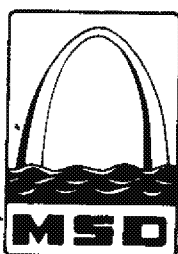
Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification:

MSD Ord. 12559 adopted 12-13-2007; effective 01-01-2008; supercedes Ord. 8472.

Prepared by: S. Rehmer	Date: 12-27-2007
Reviewed by: <u>DMM</u>	Date: <u>12-31-07</u>

Permit Modified by: S. Rehmer	Date: 12-27-2007
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**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

April 1, 2005

Bud Frederick
Facilities Manager
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Frederick

Enclosed is the Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit for the premise identified above. This permit is issued pursuant to the federal pretreatment regulations in 40 CFR 403 as amended October 3, 2001. This permit has been prepared based on information that you supplied in the District's Industrial User Questionnaire, on results from previous wastewater samplings and inspections and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Section I of the permit conditions has been reorganized and includes additional clarifying language but does not contain any new requirements. Other minor changes may have been made to improve the overall clarity of the document.


The previous permit, effective May 1, 2000, is voided as of the effective date of the enclosed permit.

Monitoring reports required by the conditions of this permit must be submitted quarterly for the life of the permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. Copies of the necessary report forms are enclosed.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. Absence of a response within this time frame will be deemed acceptance, by you, of the provisions of this permit.

You may contact us at 436-8756 at any time if you have any question about your permit.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

Enclosures

cc: Permit file

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2005
EXPIRATION DATE: April 30, 2010

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 SOUTH GRAND BOULEVARD
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: TWO
SAMPLING PT. REF NUMBER(S): 001, 004

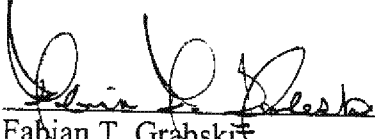
In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

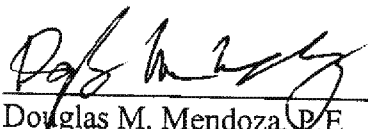
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Douglas M. Mendoza, P.E.
Industrial Waste Engineer

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 74,445

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + NCCW + Boiler Blowdown + Cooling Tower Blowdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.
- c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH and/or temperature at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-C of District Ordinance 8472. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied by the District) shall be submitted to the District's Department of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.

- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 8472. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

The report must be postmarked no later than:

January 1 through March 31

April 28

April 1 through June 30

July 28

July 1 through September 30

October 28

October 1 through December 31

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by July 28, 2005.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Department of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Department of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 8472, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 8472.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 8472.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

- Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.
- In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Department of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Department of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 8472 Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Department of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 8472 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than three (3) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 8472.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 8472.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Department of Environmental Compliance at (314) 436-8710.

SECTION II - SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. Special Certification and Reporting Requirements:

1. Permittee is authorized to discharge not more than **1.2 millicuries** of radioactive material per year to the District's sanitary sewers. Such materials must be soluble, or dispersible if biological material, in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, in conjunction with other user's discharges of radioactive materials, causes the aggregate of all radioactive materials entering the District's treatment plant to exceed one (1) curie per year or causes interference as defined in MSD Ordinance 8472.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. Special Billing Reporting Requirements:

1. Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on **seventy-nine (79) percent** of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT**

PERMIT FACT SHEET

Check one:

FIRST TIME PERMIT	
RENEWAL	<input checked="" type="checkbox"/>
REVISION	

Prepared by: <u>FTG</u>	Date: <u>03-07-05</u>
Reviewed by: <u>DMM</u>	Date: <u>3/8/05</u>

PERMIT NO: 41121954-00 EFFECTIVE DATE: 05-01-05 EXPIRATION DATE: 04-30-10

MODIFICATION DATES: (1) _____, (2) _____, (3) _____, (4) _____

COMPANY NAME: SSM CARDINAL GUERIN CHILDREN'S HOSP.

PREMISE ADDRESS: 4655 GRAND BLVD. ST. LOUIS, MO 63104

RELATED ACCOUNT NUMBERS: 41124853-01 ~

SIC NUMBERS: 8069 ~

TYPE OF OPERATION: HOSPITAL

TOTAL NUMBER OF SAMPLING POINTS: 2 or, NO SAMPLE POINT ☒

NUMBER OF: ORDINANCE 2 CATEGORICAL ☒ COMBINED ☒

CATEGORICAL INDUSTRY ? YES _____ NO ☒

If Yes, 40 CFR _____ Subpart _____ PSES _____ PSNS _____

40 CFR _____ Subpart _____ PSES _____ PSNS _____

EXTRA STRENGTH SURCHARGE ? YES _____ NO ☒ If Yes, BOD _____ COD _____ TSS _____

RETURN FACTOR ? YES ☒ NO _____ If Yes, Acct # 41121954-00 RF 0.79

SPECIAL CONDITIONS REQUIRED ? YES ☒ NO _____

SUPPORTING DOCUMENTS ATTACHED	YES	NO	N/A
Pollutant & Limitations Documentation Sheets:	<input checked="" type="checkbox"/>		
Permit Preparation Checklist:	<input checked="" type="checkbox"/>		
Production Based Standards Calculation Sheets:			<input checked="" type="checkbox"/>
If Yes, for Sampling Points:			<input checked="" type="checkbox"/>
Most Strict Standards Calculation Sheets:			<input checked="" type="checkbox"/>
If Yes, for Sampling Points:			<input checked="" type="checkbox"/>
Combined Wastestream Calculations Sheets:			<input checked="" type="checkbox"/>
If Yes, for Sampling Points:			
Other:			

COMMENTS (Include notations of any significant changes from last permit): N/A

SAMPLING POINT REFERENCE NUMBER: 001 TYPE: Ord. ☒ Cat ☐ Comb ☐
 Wastewater Components: HOSP WASTE + SAN + NCCW + BOIL. BLOWDOWN + COOLING TOWER
 Flow Rate: 74,445 GPD Basis for Flow Rate: 100 Random
 General Pollutants: BOD ☒ COD ☒ O> ☒ pH ☒ Temp ☒ TSS ☒ Ord TTO ☒
 Other: N/A
 Priority/Categorical Pollutants: Ag; X-RAY WASTE
 Basis for Pollutants: STD PMT POLLUTANTS
 Basis for Limitations: MSD ORD # 8472
 Basis for Monitoring Frequencies: 1/2 MONTHS; VOLUME OF HOSPITAL WASTE
 Special Conditions: # _____, # _____, # _____, # _____, # _____, # _____
 Any significant changes in Components, Flows, Limits or Monitoring Reqs from previous permit? YES ☐ NO ☒
 Explain: _____

SAMPLING POINT REFERENCE NUMBER: 004 TYPE: Ord. ☒ Cat ☐ Comb ☐
 Wastewater Components: HOSP WASTE + SANITARY
 Flow Rate: 7,000 GPD Basis for Flow Rate: 100
 General Pollutants: BOD ☒ COD ☒ O> ☒ pH ☒ Temp ☒ TSS ☒ Ord TTO ☒
 Other: N/A
 Priority/Categorical Pollutants: Ag; X-RAY WASTE
 Basis for Pollutants: _____
 Basis for Limitations: { SEE SP 001 }
 Basis for Monitoring Frequencies: _____
 Special Conditions: # _____, # _____, # _____, # _____, # _____, # _____
 Any significant changes in Components, Flows, Limits or Monitoring Req from previous permit? YES ☐ NO ☒
 Explain: _____

PERMIT PREPARATION CHECKLIST - PART 1
(Fact Sheet Attachment 2)

Company Name: SSM CYRANA GLENNON CHILDREN'S HOSP. Permit No.: 41121954-DD
Effective Date: 06.01.05 Prepared by: FG Date: 08.07.05

REVIEW THE PRETREATMENT DATABASE (ECIMS), INDUSTRY FILE AND PERMIT APPLICATION.

ANSWER THE FOLLOWING QUESTIONS AND UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT.

1. Are the correct SICs listed? Yes ☒ No ☐
If no, add: _____ delete: _____
2. Is user in surcharge? Yes ☐ No ☒
If yes, date last certified: _____
If yes, Special Condition F.2 applies.
3. Does user's premise have more than one MSD account? Yes ☐ No ☒
If yes, were all account numbers correctly listed (including occupant #s)? Yes ☐ No ☐
If no, have account numbers been corrected in database before proceeding? Yes ☐ No ☒
4. Does user have a Return Factor (RF) other than 1.00 for any account? Yes ☒ No ☐
If yes, list acct no., RF and date last updated:
Acct 41121954-DD RF 0.79 Updated 2/20/04
Acct _____ RF _____ Updated _____
If yes, Special Condition F.1 applies.
5. Does user discharge water from a source not included in the MSD Billing system? Yes ☐ No ☒
If yes, Special Condition F.3 applies.
6. Have you established agreement among permit application, water consumption records and ECIMS on component flows at each SP, total SP flows and total premise flow? Yes ☒ No ☐
If no, explain _____
7. Has user been granted any variances from ordinance limitations? Yes ☐ No ☒
If yes, Parameter(s) _____ at SP(s) _____
If yes, Special Condition C.4 applies.
8. Does user discharge any radioactive materials? Yes ☒ No ☐
If yes, Special Condition E.18 applies.
9. Do all of the user's active connections, to MSD sewers, have identified SPs? Yes ☒ No ☐
If no, explain: _____
If no, is documentation sufficient to use Special Condition E.5, E.6, E.7 or E.8? Yes ☐ No ☐
If no, is compliance schedule necessary to obtain documentation? Yes ☐ No ☐
If yes, Special Condition G.1 is necessary.
10. Does premise require use of "upstream/downstream" sampling? Yes ☐ No ☒
If yes, Upstream SP # _____ & Downstream SP # _____
If yes, Special Conditions D.11 and E.9 apply.
11. Are there any inactive connections to MSD sewers? Yes ☐ No ☒
If yes, does Special Condition E10. apply? Yes ☐ No ☒
12. Have you verified, in ECIMS, the SP location descriptions are complete and adequate? Yes ☒ No ☐
13. Have you verified, in ECIMS, the discharge components, process descriptions and related flows at all SPs, are complete and adequate? Yes ☒ No ☐

14. Are any SPs Dry Justified? Yes ___ No ☒
 If yes, list points _____ and note on P&LD sheets.
 If yes, Special Condition E.3 applies.
15. Do any SPs convey stormwater in addition to regulated wastewater? Yes ___ No ☒
 If yes, list points: _____ and note on P&LD sheets.
 If yes, Special Condition D.10 applies.
16. Does user have any discharges subject to NPDES permitting regulations? Yes ___ No ☒
 If yes, list points: _____
 If yes, Special Condition E.14 applies.
17. Are there some SPs where user discharges only non-process wastewater? Yes ___ No ☒
 If yes, does Special Condition E.3 apply? Yes ___ No ___
 If yes, list points _____ and note on P&LD sheets.
18. Is documentation adequate to allow use of grab samples in lieu of composites at any SPs? Yes ___ No ☒
 If yes, list points _____ and note on P&LD sheets.
 If yes, Special Condition D.1 applies.
19. Are there SPs with less than a quarterly self-monitoring frequency for all parameters? Yes ___ No ☒
 If yes, Special Condition E.4 applies.
20. Can user be given a waiver from monitoring local limits TTO at any ordinance SPs? Yes ___ No ☒
 If yes, list points _____ and explain on P&LD sheets.
21. Does user have a history of compliance problems at this or a previous location? Yes ___ No ☒
 If yes, is a compliance schedule required? Yes ___ No ___
 If yes, Special Condition G.1 applies.
 Is supporting documentation attached? Yes ___ No ☒
22. Is user required to monitor for Total Phenols at an ordinance SP? Yes ___ No ☒
 If yes, does Special Condition D.3 apply? Yes ___ No ___
23. Are special billing conditions, other than the standard Special Conditions, needed? Yes ___ No ☒
 If yes, describe: _____

24. Are any Special Conditions, other than the standard special conditions, required? Yes ___ No ☒
 If yes, explain: _____

 Is supporting documentation attached? Yes ___ No ☒
25. Is user classified as a Categorical Industrial User (CIU)? Yes ___ No ☒
 If yes, complete part 2 of checklist. If no, STOP here.

List all the Special Conditions from Part 1 that are applicable to this permit:

F.1 # E.18 # _____ # _____ # _____ # _____ # _____ # _____



FOR MSD USE ONLY		
Account Number:	41121987.00	Category: <input checked="" type="checkbox"/> SIU <input type="checkbox"/> CIU <input type="checkbox"/> SUR
TA:	<i>[Signature]</i>	HIFL NOTXWST <input checked="" type="checkbox"/> XWST
TS:	<i>[Signature]</i>	NOPRFL MULTI
	Reviewer	Date

**METROPOLITAN ST. LOUIS SEWER DISTRICT
OFFICE OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE**

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403, Section 403.14, information and data provided in this questionnaire, which identifies the nature and frequency of discharge, shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to develop the permit.

SECTION A - GENERAL INFORMATION

1. Company Name: SSM Cardinal Glennon Childrens Hospital
2. Mailing Address: 1465 S. Grand Blvd.
St. Louis MO Zip Code: 63104-1095
3. Premise Address: 1465 S. Grand & 1505 South Grand
St. Louis MO Zip Code: 63104-1095
4. Person Authorized to Sign Reporting Documents:
Name and Title: Bruce Frederick Facilities Manager.
Tel. No.: (314) 577-5327
5. Check One: ☒ Existing Discharge
☐ Proposed Discharge If proposed, indicate discharge start date: _____
6. Shift Information:
 - a. Number of shifts per work day: 3 and work days per week: 7
 - b. Average number of employees per shift: 1st 600 2nd 400 3rd 350 Total: 1350
 - c. Shift start times: 1st 0800 2nd 1600 3rd 2100

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

PRIMARY ACTIVITY	SIC NUMBER
a. <u>Health Care Hospital</u>	<u>8062</u>
b. _____	_____
c. _____	_____
d. _____	_____

Company Name:
Premise Address:
Account Number:

DM Cardinal Glennon Children's Hosp
1465 S. Squire Ave
417 1904-00

SECTION B - PRODUCT OR SERVICE INFORMATION (Continued)

2. Are primary activities generally batch or continuous processes? ☐ batch ☒ continuous

3. Principal raw materials used: _____

4. Principal products produced: _____

5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

ACTIVITY	SIC NO.	ACTIVITY	SIC NO.
<input type="checkbox"/> Adhesive and Sealants Mfg.	_____	<input type="checkbox"/> Mineral Mining and Processing	_____
<input type="checkbox"/> Aluminum Forming	_____	<input type="checkbox"/> Nonferrous Metals Forming	_____
<input type="checkbox"/> Asbestos Mfg.	_____	<input type="checkbox"/> Nonferrous Metals Mfg.	_____
<input type="checkbox"/> Battery Mfg.	_____	<input type="checkbox"/> Organic Chem., Plastics & Synthetic Fibers Mfg.	_____
<input type="checkbox"/> Builder's Paper and Roofing Felt Mfg.	_____	<input type="checkbox"/> Paint Formulating	_____
<input type="checkbox"/> Carbon Black Mfg.	_____	<input type="checkbox"/> Painting, Finishing or Paint Stripping	_____
<input type="checkbox"/> Cement Mfg.	_____	<input type="checkbox"/> Parts Washing	_____
<input type="checkbox"/> Coil Coating	_____	<input type="checkbox"/> Paving and Roofing Materials	_____
<input type="checkbox"/> Copper Forming	_____	<input type="checkbox"/> Pesticide Chem. Mfg., Formulating, Packaging	_____
<input type="checkbox"/> Dairy Products Processing	_____	<input type="checkbox"/> Petroleum Refining	_____
<input type="checkbox"/> Drum Reconditioning	_____	<input type="checkbox"/> Pharmaceutical Mfg.	_____
<input type="checkbox"/> Electrical and Electronic Components	_____	<input type="checkbox"/> Phosphate Mfg.	_____
<input type="checkbox"/> Electroplating	_____	<input checked="" type="checkbox"/> Photographic Processing	_____
<input type="checkbox"/> Explosive Mfg.	_____	<input type="checkbox"/> Plastic Molding and Forming	_____
<input type="checkbox"/> Feedlots	_____	<input type="checkbox"/> Porcelain Enameling	_____
<input type="checkbox"/> Ferroalloy Mfg.	_____	<input type="checkbox"/> Printing and Publishing	_____
<input type="checkbox"/> Fertilizer Mfg.	_____	<input type="checkbox"/> Pulp, Paper and Paperboard Mfg.	_____
<input checked="" type="checkbox"/> Food Preparation	_____	<input type="checkbox"/> Q.C. Laboratory	_____
<input type="checkbox"/> Fruit and Vegetable Processing	_____	<input type="checkbox"/> R & D Laboratory	_____
<input checked="" type="checkbox"/> General Offices	_____	<input type="checkbox"/> Radioactive Materials Processing	_____
<input type="checkbox"/> Glass Mfg.	_____	<input type="checkbox"/> Repair Shop, Garage	_____
<input type="checkbox"/> Grain Milling	_____	<input type="checkbox"/> Rubber and Rubber Products Mfg.	_____
<input type="checkbox"/> Gum and Wood Chemical Mfg.	_____	<input type="checkbox"/> Seafood Processing	_____
<input type="checkbox"/> Hazardous Waste Treatment, Storage or Disposal	_____	<input type="checkbox"/> Soap and Detergent Mfg.	_____
<input type="checkbox"/> Health Care or Hospital	_____	<input type="checkbox"/> Solvent Recycling	_____
<input type="checkbox"/> Industrial Laundry	_____	<input type="checkbox"/> Steam Electric Power Generation	_____
<input type="checkbox"/> Ink Formulating	_____	<input type="checkbox"/> Sugar Processing	_____
<input type="checkbox"/> Inorganic Chemicals Mfg.	_____	<input type="checkbox"/> Textile Mills	_____
<input type="checkbox"/> Iron and Steel Mfg.	_____	<input type="checkbox"/> Timber Products Mfg.	_____
<input type="checkbox"/> Leather Tanning and Finishing	_____	<input type="checkbox"/> Transportation Equipment Cleaning	_____
<input type="checkbox"/> Machine Shop	_____	<input type="checkbox"/> Transportation Services	_____
<input type="checkbox"/> Machinery Mfg. or Rebuilding	_____	<input type="checkbox"/> Used Oil Reclamation	_____
<input type="checkbox"/> Meat Processing	_____	<input type="checkbox"/> Vehicle/Equipment Washing	_____
<input type="checkbox"/> Metal Finishing	_____	<input type="checkbox"/> Warehousing	_____
<input type="checkbox"/> Metal Molding and Casting	_____	<input type="checkbox"/> Waste Recycling	_____
		<input type="checkbox"/> Others (Describe) _____	_____

DEC 21 2004

6. Are your activities subject to seasonal variation? ☐ Yes ☒ No
If "Yes," explain and indicate the month(s) of peak activity: _____

Company Name: SSM Cardinal Glennon Children's Hospital
 Premise Address: 1465 N. Grand Blvd.
 Account Number: 412/976-00

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

- Raw Water Source(s): ☒ City of St. Louis Water Div. ☐ Surface water
☐ St. Louis County Water Co. ☐ Private well
☐ Other municipal source ☐ Other (describe) _____
☐ Hauled by contractor
- Water Bill Addressee: SSM Cardinal Glennon Children's Hospital
- Water Service Account Numbers: _____
- List past twelve months water usage from: ☐ Water Bills ☐ Other Sources

1st 3 mo period	<u>01</u> Mo	<u>04</u> Yr through	<u>04</u> Mo	<u>04</u> Yr	<u>16076</u> Ccf	_____ Ccf
2nd 3 mo period	<u>04</u> Mo	<u>04</u> Yr through	<u>07</u> Mo	<u>04</u> Yr	<u>11605</u> Ccf	_____ Ccf
3rd 3 mo period	<u>07</u> Mo	<u>04</u> Yr through	<u>10</u> Mo	<u>04</u> Yr	<u>10294</u> Ccf	_____ Ccf
4th 3 mo period	<u>10</u> Mo	<u>04</u> Yr through	<u>12</u> Mo	<u>04</u> Yr	<u>12195</u> Ccf	_____ Ccf
- Describe any treatment or conditioning process performed on the raw water before use: N/A

- Identify all water uses within your facility:

Water Uses	Estimated Average Daily Use (Gallons per day)
a. Sanitary	<u>38,000</u>
b. Irrigation & lawn watering	<u>11,874</u>
c. Non-contact cooling water	<u>2620</u>
d. Contact cooling water	_____
e. Process water	_____
f. Plant & equipment washdown	_____
g. Boiler	<u>14,487</u>
h. Other uses <u>Hospital Waste</u>	<u>36,115</u>
i. Total of USES (6a through 6h):	<u>103,096</u>

- Identify all water losses and wastewater discharges from your facility:

Water Losses & Discharges	Estimated Average Daily Loss/Discharge (Gallons per Day)
a. Municipal sewer	<u>81,446</u>
b. Watercourse, storm drain, ground	<u>11,874</u>
c. Haulers	_____
d. Evaporation	<u>9,776</u>
e. Contained in product	_____
f. Total of LOSSES & DISCHARGES:	<u>103,096</u>
(7a through 7e must equal total at 6i)	

- For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets, if needed.

Item No.	Activity	Type of Discharge			Avg. Water Use (GPD)	Avg. Discharge to Mun Sewer (GPD)	Date when activity first commenced at this facility
		Cont	Batch	None			
1	<u>Sanitary</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>38,000</u>	<u>38,000</u>	
2	<u>Storm Irrigation</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>11,874</u>	<u>11,874</u>	
3	<u>Hospital Waste</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>36,115</u>	<u>36,115</u>	
4	<u>MSW Bldg & Cust. Bldg</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>17,107</u>	<u>7,771</u>	
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Company Name: SJM Cardinal Glenn Children's Hosp.Premise Address: 1461 W. Grand BlvdAccount Number: 41121904.00**SECTION D - SEWER CONNECTION INFORMATION**

- Attach a scale drawing of your premise, which shows:
 - All buildings, structures, alleys, streets and other pertinent features.
 - All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
 - A sampling point for each connection to the public sewer.
 - A sampling point for each discharge from a federally regulated categorical process.
 - A sampling point for each discharge to a separate storm sewer or watercourse.
- List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1		MH on sidewalk S of Vista Ave	74,440
2		E of overhead walkway Flow SE	
3			
4		MH 3' W from SW corner emergency Bldg.	7000
5			

SECTION E - WASTEWATER INFORMATION

- For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	1	2	3	4	5	
a. Sanitary	34,000			4000		38000
b. Irrigation & lawn watering						
c. Non-contact cooling water	220					220
d. Contact cooling water						
e. Process (From C.8)						
Hospital waste	3000			3000		3000
f. Plant & equipment washdown						
g. Boiler blowdown						
h. Other (Cooling water blowdown)						
Regeneration waste (C.5)						
Totals (Same as D.2):	74,440			7000		81,440

- If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following:

NPDES Outfall Number _____

NPDES Permit Number _____

- Do any of the above sampling points also convey stormwater from your premise?

☒ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☒ Yes ☐ No ☐ Yes ☐ No

- Do you pretreat any of the wastes discharged through any of the above points?

☒ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☒ Yes ☐ No ☐ Yes ☐ No

Company Name: Central Illinois Children's Hospital
Premise Address: 1965 J. Grant St
Account Number: 412 1988 00

SECTION E - WASTEWATER INFORMATION (Continued)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description
001	Silver recovery unit.
004	Silver recovery unit

6. Does your facility have:
- a. A spill control plan ? ☒ Yes ☐ No c. A solvent management plan ? ☒ Yes ☐ No
b. A waste minimization plan ? ☒ Yes ☐ No d. A slug discharge control plan ? ☐ Yes ☒ No
7. If any wastewater analyses have been performed on the wastewater discharges from your facility attach copies of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.
8. Priority Pollutant Information: Check one of the four boxes by each listed chemical to indicate whether it is: "Suspected Absent," "Known Absent," "Suspected Present" or "Known Present" **ON YOUR PREMISE**. Any chemical which is used in your manufacturing or service activity or is generated as a product or as a by-product should be marked "Known Present." Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*).

SA = "Suspected Absent"

KA = "Known Absent"

SP = "Suspected Present"

KP = "Known Present"

Item No.	PRIORITY POLLUTANT	SA	KA	SP	KP	Item No.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	36.	Reserved				
2.	cyanide (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37.	bis (2-ethylhexyl) phthalate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	antimony (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	38.	bromodichloromethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	arsenic (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	39.	bromoform *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	beryllium (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	40.	bromomethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	cadmium (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41.	4-bromophenylphenyl ether	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	chromium (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42.	butylbenzyl phthalate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8.	copper (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	43.	carbon tetrachloride *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.	lead (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	44.	chlordane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	mercury (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	45.	4-chloro-3-methylphenol *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	nickel (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	46.	chlorobenzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	selenium (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	47.	chloroethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	silver (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	48.	2-chloroethylvinyl ether	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.	thallium (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	49.	chloroform *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.	zinc (total)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	50.	chloromethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.	acenaphthene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51.	2-chloronaphthalene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.	acenaphthylene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52.	2-chlorophenol *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.	acrolein	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	53.	4-chlorophenylphenyl ether.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.	acrylonitrile	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	54.	chrysene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.	aldrin	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	55.	4, 4'-DDD *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.	anthracene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	56.	4, 4'-DDE *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22.	benzene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	57.	4, 4'-DDT *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23.	benzidine	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	58.	dibenzo (a,h) anthracene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.	benzo (a) anthracene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	59.	dibromochloromethane	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.	benzo (a) pyrene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	60.	1, 2-dichlorobenzene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.	benzo (b) fluoranthene	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61.	1, 3-dichlorobenzene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27.	benzo (g,h,i) perylene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62.	1, 4-dichlorobenzene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.	benzo (k) fluoranthene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	63.	3, 3'-dichlorobenzidine.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.	alpha-BHC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	64.	Reserved				
30.	beta-BHC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	65.	1, 1-dichloroethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.	delta-BHC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	66.	1, 2-dichloroethane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.	gamma-BHC *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	67.	1, 1-dichloroethene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.	bis (2-chloroethyl) ether *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	68.	trans-1, 2-dichloroethene *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.	bis (2-chloroethoxy) methane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	69.	2, 4-dichlorophenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35.	bis (2-chloroisopropyl) ether *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	70.	1, 2-dichloropropane *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Continued on next page

Account Number:

KP = "Known Present"

Page 6

Company Name: DM Corporation / 614 Monroe St. / N. / N. / N.
Premise Address: 1465 S. Grand Blvd.
Account Number: 4/12/1978-00

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? ☒ Yes ☐ No
If "Yes" complete items 2 and 3 below. Note: Be sure to include wastewaters listed in Section C.7.c.
If "No" skip remainder of this section.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store On-site	Dispose On-site	Dispose Off-site
<input type="checkbox"/> Acids and/or Alkalies			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Equipment Oils and/or Grease	<u>30</u>	<u>gal.</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Infectious Waste	<u>5,700</u>	<u>lbs</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Inks/ Dyes			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Kitchen/Food Service Grease			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Organic Compounds			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Paints or Paint Sludges			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pesticides			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pretreatment Sludges			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Radioactive Waste			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Solvents/Thinners			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:

USEPA MOD 075904839 MDNR 001310

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. Provide the following analytical information for each sampling point or each connection to the public sewer only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewater in each sewer must be collected and analyzed for the listed parameters. Report the daily average concentrations in mg/l for each point.

Parameter	Sewer Reference Numbers (Refer to Section D.2) If more than 5, attach additional sheets				
	1	2	3	4	5
Total Solids					
Total Suspended Solids					
Biochemical Oxygen Demand (5 day)					
Chemical Oxygen Demand					
Flow (GPD)					
Date Sampled					
Time Sampled					
Type of Sample					
Collected By (Name of organization):					
Analyzed By (Name of organization):					

Company Name: DM Capital Group, LLC
Premise Address: 1465 J Street NW
Account Number: 4421984-00

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

Name and Title of Contact person: Bud Frederick
Facilities manager Tel. No.: (311) 577-5327

2. "I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and Title of Signing Official: Bud Frederick
Facilities manager Tel. No.: (311) 577-5327

Signature: Bud Frederick Date: 12/20/04

List attachments included with this questionnaire:

12/20/04

12/20/04



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

March 8, 2005

Bud Frederick
Facilities Manager
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Frederick:

We have completed our review of your application for renewal of the Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit for the premise identified above. The current permit expires on April 30, 2005. Enclosed is a draft copy of the proposed permit renewal.

Except as noted in this paragraph, the terms and conditions of this draft permit renewal are substantially the same as in the current permit. Section I of the permit conditions has been reorganized and includes additional clarifying language but does not contain any new requirements. Other minor changes may have been made to improve the overall clarity of the document.

This draft has been prepared pursuant to the federal pretreatment regulations in 40 CFR 403 as amended October 3, 2001 and is based on information that you supplied in the District's Industrial User Questionnaire, on results from previous wastewater samplings and inspections and on requirements contained in existing MSD ordinances and state and federal regulations.

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. Absence of a response within this time frame will be deemed as acceptance of the draft permit and we will proceed to issue the final permit.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Assistant Engineer

Enclosure

cc: Permit file

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2005
EXPIRATION DATE: April 30, 2010

ISSUED TO: SSN CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 SOUTH GRAND BOULEVARD
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: TWO
SAMPLING PT. REF NUMBER(S): 001, 004

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 84, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Assistant Engineer

Douglas M. Mendoza, P.E.
Industrial Waste Engineer

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 74,445

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary + NCCW + Boiler Blowdown + Cooling Tower Blowdown

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

- a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.
- b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

D For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

R In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

A
7. If the permittee employs continuous monitoring techniques for pH and/or temperature at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-C of District Ordinance 8472. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

E
8. If the permittee monitors any of the listed pollutants, using the method specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied by the District) shall be submitted to the District's Department of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
 - b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
 - c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- T**

- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 8472. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

The report must be postmarked no later than:

January 1 through March 31

April 28

April 1 through June 30

July 28

July 1 through September 30

October 28

October 1 through December 31

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by July 28, 2005.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Department of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 300 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Department of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 8472, significant new or increased discharge means:
- Any discharge from a new process or facility or a new source.
 - Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
 - Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
 - Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 8472.
 - Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
 - Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 8472.
 - Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Department of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Department of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any permit condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 8472 Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Department of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 8472 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than three (3) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 8472.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 8472.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Department of Environmental Compliance at (314) 436-8710.

SECTION II. SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. Special Certification and Reporting Requirements:

1. Permittee is authorized to discharge not more than **1.2 millicuries** of radioactive material per year to the District's sanitary sewers. Such materials must be soluble, or dispersible if biological material, in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, in conjunction with other user's discharges of radioactive materials, causes the aggregate of all radioactive materials entering the District's treatment plant to exceed one (1) curie per year or causes interference as defined in MSD Ordinance 8472.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. Special Billing Reporting Requirements:

1. Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on **seventy-nine (79) percent** of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

June 30, 2004

Bud Fredrick
Maintenance Supervisor
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: INDUSTRIAL USER QUESTIONNAIRE
Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Fredrick:

The Metropolitan St. Louis Sewer District Wastewater Discharge permit for the above premise expires on May 1, 2005. Under the terms of the permit, you are requested to apply for renewal at least 180 days prior to the expiration date.

Enclosed is an Industrial User Questionnaire along with detailed instructions to assist you in supplying the required information. This questionnaire serves as your permit application. We request that you return the original and yellow copy to the District by November 22, 2004.

After a review, of the completed questionnaire and our existing data, we will prepare a draft permit and send it to you for comment.

Thank you for your cooperation. If you have any question or any specific problem providing the requested information please contact me at 436-8756.

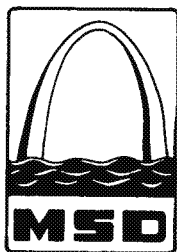
Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Assistant Engineer

Enclosures

pc: Suspense file

cc: Doug Mendoza
Dave Kupke
Permit file



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

March 17, 2004

Bud Frederickh
Facilities Manager
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

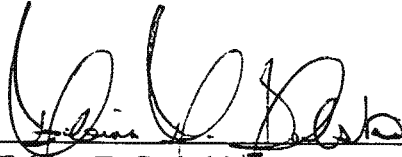
Dear Mr. Frederickh:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on May 1, 2000, for the premise identified above, is hereby modified pursuant to the attached pages 1 and 3A. This modification adds new sampling point 004. This letter and the revised pages 1 and 3A should be affixed to your permit as your official record and become a part thereof. This change was identified pursuant to the District's January 15, 2004 facility inspection of the above premise.

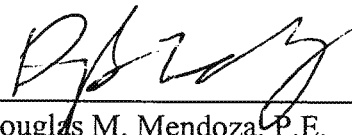
This modification does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and does not in any way relieve you of your obligations to achieve the discharge limitations as provided in the permit.

Please contact us if you have any questions.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Douglas M. Mendoza, P.E.
Industrial Waste Engineer

cc: Permit file

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2000
MODIFICATION DATE: March 29, 2004
EXPIRATION DATE: April 30, 2005

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. GRAND BOULEVARD
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: TWO
SAMPLING PT. REF NUMBER(S): 001, 004

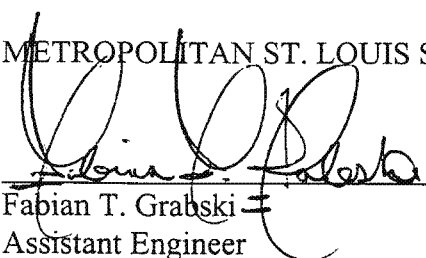
In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

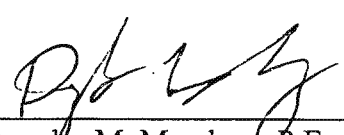
Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer


Douglas M. Mendoza, P.E.
Industrial Waste Engineer

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 004

SAMPLING POINT LOCATION: MH 3' W from SW corner of emergency building

AVERAGE WASTEWATER FLOW (GPD): 7,000

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

April 11, 2003

Bud Frederick
Maintenance Supervisor
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Frederick:

We have reviewed the first quarter 2003 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

A review of previously submitted self-monitoring reports identified that TTO has not been monitored and reported at sampling point 001 since January 17, 2002. The permit requires that TTO be reported once per year for sampling point 001. The TTO is to include analyses for all "applicable toxic organics". The "applicable toxic organics" are those which are or may be present in your discharge. Generally these will be the toxic organics which were denoted as being suspected or known present on the permit application completed by SSM Cardinal Glennon Children's Hospital, plus any which may have been added since the date of the application. The "applicable toxic organic" compounds identified on the October 29, 1999 application by SSM Cardinal Glennon Children's Hospital are Phenol, Methylene Chloride, Chloroform, and 2,4-Dinitrophenol which, were denoted as being known present on your premise.

REQUIRED ACTION/RESPONSE:

Submit a report of corrective actions, which you have initiated, to ensure that the sampling, analytical, and reporting requirements will be met in future reporting quarters. Please submit your corrective action response by May 12, 2003. Additionally, we ask that you monitor sampling point 001 for TTO during second quarter 2003.

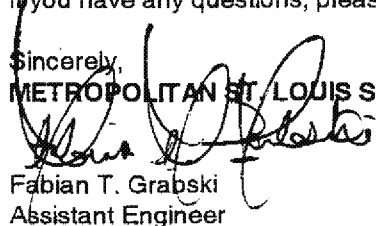
Please note that the TTO analysis need only include the compounds indicated as known present on the aforementioned October 29, 1999 permit application. However, if the aforementioned compounds have been removed from your premise, please provide supporting documentation to the District. Sampling and reporting for TTO at sampling point 001 will not be required if these compounds have been removed from your premise.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

If you have any questions, please contact me at 436-8756.

Sincerely,

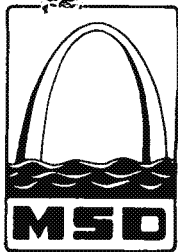
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

MSD 036492



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

March 8, 2002

Kevin R. Julius
Facilities Compliance Manager
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

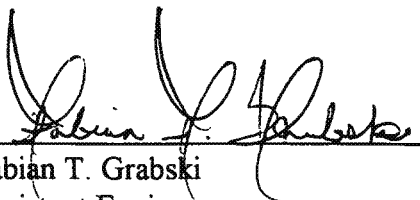
Dear Mr. Julius:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on May 1, 2000, for the premise identified above, is hereby modified as per the attached page one. This modification reflects the permittee's name change. This letter and revised page one should be affixed to your permit as your official record and become a part thereof. This change was identified pursuant to our February 22, 2002 telephone conversation.

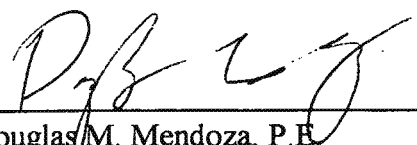
This modification does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and does not in any way relieve you of your obligations to achieve the discharge limitations as provided in the permit.

Please contact us if you have any questions.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Douglas M. Mendoza, P.E.
Industrial Waste Engineer

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2000
MODIFICATION DATE: March 14, 2002
EXPIRATION DATE: April 30, 2005

ISSUED TO: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. GRAND BOULEVARD
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: ONE
SAMPLING PT. REF NUMBER(S): 001

SEE PG 1 DTD 3/21/04 FG

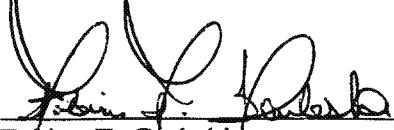
In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

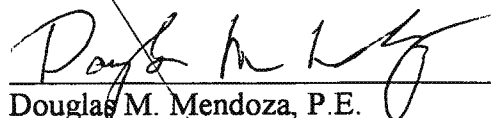
Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

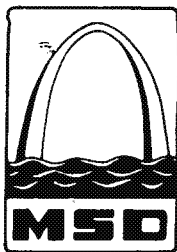
METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Douglas M. Mendoza, P.E.
Industrial Waste Engineer



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

September 19, 2001

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

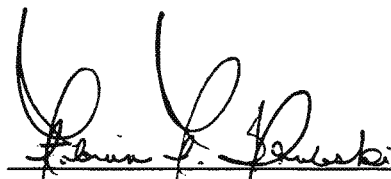
Dear Mr. Julius:

Your Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit issued on May 1, 2000, for the premise identified above, is hereby modified as per the attached pages 1, 3, and 9. This modification removes sampling point 003 and eliminates two related special conditions. These changes were identified pursuant to the District's September 17, 2001 site visit which, identified that the building at 1505 S. Grand Boulevard has been razed.

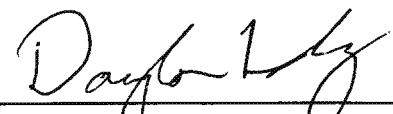
This modification does not affect any monitoring or analysis of your discharge that may be necessary to comply with other requirements of your permit and does not in any way relieve you of your obligations to achieve the discharge limitations as provided in the permit.

Please contact us if you have any questions.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Douglas M. Mendoza, P.E.
Industrial Waste Engineer

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2000
MODIFICATION DATE: September 24, 2001
EXPIRATION DATE: April 30, 2005

ISSUED TO: CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. GRAND BOULEVARD
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: ONE
SAMPLING PT. REF NUMBER(S): 001

SEE PG 1 DTD 3/14/02

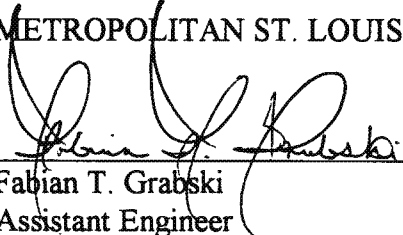
In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

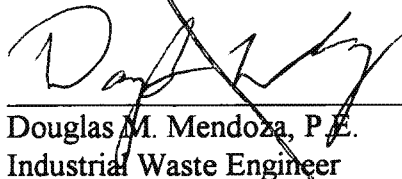
Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer


Douglas M. Mendoza, P.E.
Industrial Waste Engineer

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: 6" vent 30' W, 20' S of NW corner of Bldg 1505 on Park Avenue

AVERAGE WASTEWATER FLOW (GPD): 1,700

WASTEWATER SOURCE AND CATEGORY: Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Oil and Grease (Total) [mg/L]	200	Instant	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

Permit No.: 41121954-00
Page No.: 9
Effective Date: September 24, 2001

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.
3. During normal business hours, notifications may be made by calling the District's Department of Environmental Compliance at (314) 436-8710.

SECTION II - SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. Special Certification and Reporting Requirements:

1. Permittee is authorized to discharge not more than **1.2 millicuries** of radioactive material per year to the District's sanitary sewers. Such materials must be soluble, or dispersible if biological material, in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, in conjunction with other user's discharges of radioactive materials, causes the aggregate of all radioactive materials entering the District's treatment plant to exceed one (1) curie per year or causes interference as defined in MSD Ordinance 8472.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

B. Special Billing Reporting Requirements:

1. Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on **seventy-nine (79) percent** of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

April 25, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

Enclosed is the Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit for the premise identified above. This permit is issued pursuant to the federal pretreatment regulations in 40 CFR 403 as amended October 25, 1995. This permit has been prepared based on information that you supplied in the District's Industrial User Questionnaire, on results from previous wastewater samplings and inspections and on requirements contained in existing MSD ordinances and state and federal regulations.

Except as noted in this paragraph, the terms and conditions of this permit are substantially the same as in the previous permit. Sampling point 002 has been replaced with new sampling point 003. Two special conditions have been added which authorize the use of grab samples in lieu of composite samples at sampling point 003 and identifies the current return factor associated with the above referenced account number. Additionally, Section I of the permit conditions has been reorganized and includes additional clarifying language but does not contain any new requirements. Other minor changes may have been made to improve the overall clarity of the document.


The previous permit, effective September 1, 1996, is voided as of the effective date of the enclosed permit.

Monitoring reports required by the conditions of this permit must be submitted quarterly for the life of the permit. The first report due date, for this reissued permit, is based on a complete calendar quarter monitoring period. The permittee remains responsible for reporting for the preceding calendar quarter under the previous permit. Copies of the necessary report forms are enclosed.

If you disagree with any of the terms or conditions of this permit please inform us, in writing, within 15 working days of receipt. Absence of a response within this time frame will be deemed acceptance, by you, of the provisions of this permit.

You may contact us at 436-8756 at any time if you have any question about your permit.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

Enclosures

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2000

EXPIRATION DATE: April 30, 2005

ISSUED TO: CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 & 1505 S. GRAND BLVD.
ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: TWO

SAMPLING PT. REF NUMBER(S): 001, 003

SEE PG 1 DTD 9/24/01

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabian T. Grabski
Assistant Engineer



Bob Zeman, P.E.
Manager of Environmental Compliance

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 62,376

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + NCCW + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: 6" vent 30' W, 20' S of NW corner of Bldg 1505 on Park Avenue

AVERAGE WASTEWATER FLOW (GPD): 1,700

WASTEWATER SOURCE AND CATEGORY: Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Oil and Grease (Total) [mg/L]	200	Instant	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

REMOVED 9/24/01

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

- a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.
- b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH and/or temperature at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-C of District Ordinance 8472. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied by the District) shall be submitted to the District's Department of Environmental Compliance for each calendar quarter. Each report shall include:

- a. All facility and sample description information required on the District's reporting form.
- b. Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- c. Daily flows, with dates, for all measurements or estimates made within the quarter.
- d. Any certification statements required pursuant to the Special Conditions in Section II.
- e. Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 8472. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by July 28, 2000.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Department of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 350 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Department of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 8472, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 8472.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 8472.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Department of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

D. BYPASSING PROHIBITED:

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Department of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 8472 Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Department of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 8472 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than three (3) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 8472.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 8472.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Department of Environmental Compliance at (314) 436-8710.

SECTION II - SPECIAL CONDITIONS:

SEE PG 9 DTD 9/24/01

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. Special Sampling and Analytical Procedures:

1. The permittee is authorized to perform self-monitoring at sampling point **003** using grab samples in lieu of the composite samples specified in General Condition I.A.3. Each quarterly self-monitoring report shall include a statement that the grab sample results accurately represent the permittee's average daily discharge.

B. Special Certification and Reporting Requirements:

1. At sampling point **003** permittee is required to sample the discharge only **once per year**. For the quarters in which no sampling is performed, permittee shall include, in the quarterly self-monitoring report, a statement that there has been no change in the character of the wastes discharged at sampling point **003** since the last report.

2. Permittee is authorized to discharge not more than **1.2 millicuries** of radioactive material per year to the District's sanitary sewers. Such materials must be soluble, or dispersible if biological material, in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, in conjunction with other user's discharges of radioactive materials, causes the aggregate of all radioactive materials entering the District's treatment plant to exceed one (1) curie per year or causes interference as defined in MSD Ordinance 8472.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

Permit No.: 41121954-00
Page No.: 10
Effective Date: May 01, 2000

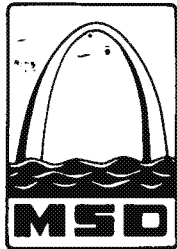
C. Special Billing Reporting Requirements:

1. Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on **seventy-nine (79) percent** of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

THIS IS THE LAST PAGE OF THIS PERMIT

AG 10 REMOVED
9/24/01

FG



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

April 7, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

We have completed our review of your application for renewal of the Metropolitan St. Louis Sewer District Industrial Wastewater Discharge Permit for the premise identified above. The current permit expires on April 30, 2000. Enclosed is a draft copy of the proposed permit renewal.

Except as noted in this paragraph, the terms and conditions of this draft permit renewal are substantially the same as in the current permit. Sampling point 002 has been replaced with new sampling point 003. Two special conditions have been added which authorize the use of grab samples in lieu of composite samples at sampling point 003 and identifies the current return factor associated with the above referenced account number. Additionally, Section I of the permit conditions has been reorganized and includes additional clarifying language but does not contain any new requirements. Other minor changes may have been made to improve the overall clarity of the document

This draft has been prepared pursuant to the federal pretreatment regulations in 40 CFR 403 as amended October 25, 1995 and is based on information that you supplied in the District's Industrial User Questionnaire, on results from previous wastewater samplings and inspections and on requirements contained in existing MSD ordinances and state and federal regulations.

Please review this draft copy carefully. If you disagree with any of the terms or conditions of the proposed permit please inform us, in writing, within 15 working days of receipt. Absence of a response within this time frame will be deemed as acceptance of the draft permit and we will proceed to issue the final permit.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Assistant Engineer

Enclosure

METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

PERMIT NO: 41121954-00

EFFECTIVE DATE: May 01, 2000

EXPIRATION DATE: April 30, 2005

ISSUED TO: CARDINAL GLENNON CHILDREN'S HOSPITAL

1465 & 1505 S. GRAND BLVD.

ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TOTAL NUMBER OF PERMITTED DISCHARGE POINTS: TWO

SAMPLING PT. REF NUMBER(S): 001, 003

In accordance with the provisions of the Federal Pretreatment Regulations (40 CFR 403) and Metropolitan St. Louis Sewer District Ordinance No. 8472, the permittee is hereby authorized to discharge wastewater into the Metropolitan St. Louis Sewer District's sanitary or combined sewer system. All discharges so authorized shall be limited and controlled pursuant to the terms and conditions of this permit.

Noncompliance with any term or condition of this permit shall constitute an ordinance violation. If formal enforcement action is required to gain compliance, the permittee who is found guilty of a violation shall be subject to fine or imprisonment, or both such fine and imprisonment, for each violation. Each day in which any such violation shall continue shall be deemed a separate offense.

Compliance with the terms and conditions of this permit does not relieve the permittee of the obligation to comply with all other applicable pretreatment regulations, standards, or requirements under local, State and Federal laws, including any such regulation, standard, legal requirement, or law that may become effective during the life of this permit.

This permit only authorizes wastewater discharges identified herein. It does not apply to any other discharge.

METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Assistant Engineer

Bob Zeman, P.E.
Manager of Environmental Compliance

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 001

SAMPLING POINT LOCATION: MH on sidewalk S of Vista Ave., E of overhead walkway, Flow from SE

AVERAGE WASTEWATER FLOW (GPD): 62,376

WASTEWATER SOURCE AND CATEGORY: Hospital Waste + NCCW + Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/3 mo
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/3 mo
Oil and Grease (Total) [mg/L]	200	Instant	Once/3 mo
pH [SU]	11.5	Instant	Once/3 mo
pH [SU]	5.5	Instant	Once/3 mo
Temperature [Deg C]	60	Instant	Once/3 mo
Total Suspended Solids [mg/L]	****	Daily Avg	Once/3 mo
Silver (Total) [mg/L]	.5	Daily Avg	Once/3 mo
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

DISCHARGE DESCRIPTION

SAMPLING POINT REFERENCE NUMBER: 003

SAMPLING POINT LOCATION: 6" vent 30' W, 20' S of NW corner of Bldg 1505 on Park Avenue

AVERAGE WASTEWATER FLOW (GPD): 1,700

WASTEWATER SOURCE AND CATEGORY: Sanitary

DISCHARGE LIMITATIONS AND SELF-MONITORING REQUIREMENTS

Parameter	Limit *	Limit Type **	Sampling Frequency
Flow [GPD]	***	Daily Avg	***
Biochemical Oxygen Demand (5 Day) [mg/L]	****	Daily Avg	Once/year
Chemical Oxygen Demand [mg/L]	****	Daily Avg	Once/year
Oil and Grease (Total) [mg/L]	200	Instant	Once/year
pH [SU]	11.5	Instant	Once/year
pH [SU]	5.5	Instant	Once/year
Temperature [Deg C]	60	Instant	Once/year
Total Suspended Solids [mg/L]	****	Daily Avg	Once/year
Total Toxic Organics [mg/L]	5.52	Instant	Once/year

* Limits are based on MSD Ordinance 8472 and applicable federal categorical standards. See Section II of the permit conditions for explanation of any adjustments to the published limits made pursuant to Article V, Section 2.A of the Ordinance.

** See Section I.A.2 of the permit conditions.

*** Report a measured or estimated average daily flow for at least one representative operating day per quarter. If additional flow measurements or estimates are made, all must be reported.

**** See Section I.A.11 of the permit conditions.

PERMIT CONDITIONS

SECTION I - GENERAL CONDITIONS:

A. MONITORING AND REPORTING REQUIREMENTS:

1. From the effective date of this permit, the permittee shall sample and analyze the discharge, at each of the identified sampling points. The pollutants to be monitored, the limitations, limitation types and minimum sampling frequencies are specified individually for each sampling point. The results of sample analyses and the results of all other self-monitoring activities specified in this permit shall be reported to the District as per paragraph A.9 below.

2. The limitation types, which may be specified in this permit, are defined as follows:

An **INSTANT** limitation is the maximum allowable concentration or mass of the pollutant in a grab sample for all pollutants except pH and temperature. For pH, the INSTANT limitations are the minimum and maximum allowable instantaneous pH values in standard units. For temperature, the INSTANT limitation is the maximum allowable instantaneous temperature in degrees Celsius (centigrade).

A **DAILY AVG** limitation is the maximum allowable concentration or mass of the pollutant in a composite sample collected within a 24-hour period.

A **DAILY MAX** limitation is the maximum allowable concentration or mass of the pollutant in any sample collected within a 24-hour period.

A **MONTHLY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in all daily samples collected within a calendar month.

A **4-DAY AVG** limitation is the maximum allowable average concentration or mass of the pollutant determined by calculating the arithmetic average of the concentrations or masses found in the daily samples collected on four consecutive sampling days. Sampling days are not necessarily consecutive calendar days.

Note: A daily sample is any sample collected within a 24-hour period.

3. Unless specified otherwise in Section II of these conditions all samples, collected to satisfy the monitoring and reporting requirements of this permit, shall be of the following types:

a. Temperature, pH and chlorine residual measurements, when required, **shall be made on-site at the points of discharge** and those measurements reported as grab sample results except, if continuous monitoring is employed for pH and/or temperature, reporting shall be as per paragraph A.7 below.

b. For oil and grease, total phenols, cyanide, sulfide and volatile organics, when required, samples shall be **Grab Samples**.

c. For all other pollutants, samples shall be **COMPOSITE SAMPLES** made up by combining a minimum of four individual grab samples within a 24-hour period. The individual grabs must be adequately flow or time proportioned to ensure a composite sample that is representative of that day's discharge.

4. When monitoring is required for Total Toxic Organics (TTO), the TTO result shall be determined by summing all quantifiable values greater than 0.01 mg/l for the applicable toxic organics.

a. For a discharge subject to a categorical pretreatment standard, the applicable toxic organics are listed in the standard. The standards are contained in 40 CFR 405 through 40 CFR 471.

b. For all other discharges the applicable toxic organics are all of those, from the list in 40 CFR 401.15, which are or may be present in the discharge.

In addition to reporting the summed TTO result, the permittee shall include, with the self-monitoring report, the analytical value obtained for each toxic organic analyzed.

5. Sampling of all discharges shall be conducted in such a manner as to ensure that the results of individual samples (whether grab or composite) are representative of normal operations and that the results of all samples during the reporting period are representative of the conditions during the reporting period.

6. All sampling and analyses performed to satisfy the monitoring and reporting requirements of this permit shall be performed in accordance with the techniques prescribed in 40 CFR 136 and amendments thereto unless other techniques are prescribed, within this permit, for specific parameters.

7. If the permittee employs continuous monitoring techniques for pH and/or temperature at any sampling point identified in this permit, unintentional and temporary excursions outside the limitations are allowed subject to the provisions of Article X, Subsection Two-C of District Ordinance 8472. The permittee shall include, with each self-monitoring report, a summary of the continuous temperature and/or pH monitoring data. For each month, the summary shall show all excursions outside the permitted limitations, the elapsed time for each excursion, the total time for all excursions for temperature and the total time for all excursions for pH.

8. If the permittee monitors any of the listed pollutants, using the methods specified in this permit, more often than required by this permit, the results of all such additional monitoring and any additional flow measurements shall be included in the self-monitoring reports.

9. A self-monitoring report (on forms supplied by the District) shall be submitted to the District's Department of Environmental Compliance for each calendar quarter. Each report shall include:

- All facility and sample description information required on the District's reporting form.
- Analytical results, with dates and times, for all analyzed samples collected within the quarter.
- Daily flows, with dates, for all measurements or estimates made within the quarter.
- Any certification statements required pursuant to the Special Conditions in Section II.
- Any other data or attachments required pursuant to the Special Conditions in Section II.

Each self-monitoring report shall be certified and signed by an individual authorized in accordance with the provisions of Article X, Section Three of District Ordinance 8472. The reports shall be submitted to the District as soon as possible after all required data are available, but no later than 28 days after the end of each quarter.

For the calendar quarter of:

January 1 through March 31

April 1 through June 30

July 1 through September 30

October 1 through December 31

The report must be postmarked no later than:

April 28

July 28

October 28

January 28

A report must be submitted for each calendar quarter even if, for any reason, sampling was not required or was not performed during the quarter. **The first report, under the terms of this permit, is due by July 28, 2000.**

10. If any sampling performed by the permittee, using the methods specified in this permit, indicates a violation of any permit limitation, the permittee shall notify the District's Department of Environmental Compliance within one business day of becoming aware of the violation. The permittee shall resample the discharge and shall submit the results of the resampling within thirty (30) days of becoming aware of the violation.

11. Unless specified elsewhere in this permit, discharges of Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Suspended Solids (TSS) are not limited under the terms of this permit. However, the monitoring values reported will be used by the District to assess the applicability of extra-strength surcharges under the provisions of the District's Wastewater User Charge Ordinances. Extra-strength surcharges may be applicable when measured values exceed 300 mg/l for BOD, 600 mg/l for COD and/or 350 mg/l for TSS. If the permittee is currently subject to extra-strength surcharge, the BOD, COD and TSS values used for billing, as of the permit effective date, are listed in Section II of the permit conditions. These values are updated periodically and may change during the life of this permit.

B. CHANGE IN DISCHARGE:

1. The permittee shall not significantly increase the average daily volume, or flow rate of discharge or add any significant new pollutants or significantly increase the discharge of existing pollutants set forth in this permit without first having secured an amendment to the permit unless the permit conditions authorize such increase or additions without an amendment.

2. The permittee shall notify the District's Department of Environmental Compliance of any proposed significant new or increased discharge. The permittee shall make the notification at least ten (10) business days prior to the date of the planned increase or addition.

3. As defined in Article II of District Ordinance 8472, significant new or increased discharge means:

- a. Any discharge from a new process or facility or a new source.
- b. Any increase in volume or rate of discharge from an existing process or facility when the new long term average daily volume or rate of discharge will exceed the previous long term average by 20% or more.
- c. Any addition of a priority pollutant or toxic pollutant not previously present or suspected present in the permittee's discharge.
- d. Any addition of a hazardous waste subject to, but not previously reported under the reporting requirements in Article VIII, Section Nine of District Ordinance 8472.
- e. Any increase in mass of an existing regulated pollutant when the new long term average daily mass discharge of that pollutant will exceed the previous long term average by 20% or more.
- f. Any addition of a new pollutant or any increase in mass of an existing pollutant when the discharge of such pollutant may cause or contribute to interference or pass-through as these terms are defined in Article II of District Ordinance 8472.
- g. Any new batch discharges when previous discharges from an existing source at the permitted facility occurred on a continuous basis.

C. PROBLEM DISCHARGE:

1. Problem discharge means any upset, slug discharge, bypass, spill or accident which does or may result in a discharge into the District's system of a prohibited substance; or of a regulated substance in excess of limitations established in this permit and which may: (a) cause interference or pass through; or (b) contribute to a violation of any requirement of the District's NPDES permit; or (c) cause violation of any State or Federal water quality standard.

2. In the event of any problem discharge into the District's system, the permittee shall immediately notify the District, by telephone, of the incident and shall provide such information as may be required at that time in order to assess the impact of the incident on the District's system or on water quality. Within five (5) business days following any such incident, the permittee shall submit to the District's Department of Environmental Compliance a detailed written report which contains a description of the incident and its cause, location within the permittee's facility, exact dates and times of the period of problem discharge and, if not yet corrected, the anticipated time the incident is expected to continue, and steps taken or planned to correct the current incident and to reduce, eliminate and prevent occurrences of future such incidents.

D. BYPASSING PROHIBITED

The permittee may not bypass any portion of its pretreatment facilities except when necessary to perform essential maintenance and then only if the bypass will not result in a violation of applicable pretreatment standards or requirements. Any other pretreatment facility bypass is prohibited unless:

- a. The bypass is unavoidable to prevent loss of life, personal injury or severe property damage;
- b. There are no feasible alternatives to the bypass; and
- c. In the event of an anticipated bypass, advance notice is provided to the District's Department of Environmental Compliance.

E. PERMIT REVOCATION:

This permit may be revoked after thirty (30) days notice to the permittee for cause including, but not limited to, the following causes:

- a. A violation of any term or condition of this permit.
- b. A misrepresentation or failure to fully disclose all relevant facts in obtaining this permit.

F. PERMIT TERMINATION OR MODIFICATION:

1. This permit may be modified, after thirty (30) days notice to the permittee following promulgation of new State, Federal or local regulations to ensure compliance with the effective dates contained in any such new regulations.

2. Whenever any discharge covered by this permit is permanently eliminated, or when the circumstances upon which the permit was based pursuant to MSD Ordinance 8472 Article VI, Subsection 3.A, change, this permit will be terminated or modified upon verification of the changes by the District's Department of Environmental Compliance.

G. PERMIT RENEWAL:

The permittee shall apply for renewal of this permit at least one hundred eighty (180) days prior to the expiration date contained herein.

H. PERMIT TRANSFER:

This permit may not be transferred or reassigned. If the premise covered by this permit is sold or otherwise transferred to a new owner, the new owner shall apply for a new permit at least ten (10) days prior to the transfer and shall abide by all of the provisions of District Ordinance 8472 until the District issues a new permit or denies the application.

I. RIGHT OF ENTRY:

In order to ensure compliance with the provisions of this permit, District Ordinances and applicable State and Federal regulations, District representatives may inspect a permittee's treatment, pretreatment or discharge control facilities, or any process or any area of the permittee's premise which may be a source of any discharge or a source of any pollutants contained in any discharge into the District's wastewater system; conduct sampling of such facilities, processes or areas; and examine or copy any permittee's records related to such discharges. Any duly authorized representative of the District, upon presentation of proper credentials and after execution of appropriate confidentiality agreements, shall be permitted access to appropriate areas of the permittee's premises without prior notice for these purposes. A representative of the permittee shall, if appropriate, accompany the District representative while the work is being performed and shall assure that all applicable safety rules are being observed by the District's representative.

J. RECORDS RETENTION:

The permittee shall retain and preserve, for not less than three (3) years, all records, books, documents, memoranda, reports, sample analysis results, correspondence and any and all summaries thereof relating to the monitoring, sampling and chemical analyses of the permittee's discharge made by or on the permittee's behalf.

K. DEFINITIONS:

Unless the context specifically indicates otherwise, the meaning of terms used in this permit shall be as defined in Article II of District Ordinance 8472.

L. SEWER USE ORDINANCE:

Unless the context specifically indicates otherwise, the permittee is subject to all provisions of District Sewer Use Ordinance 8472.

M. NOTIFICATION AND REPORTING:

1. All notifications and reports required by this permit shall be directed to:

Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, Missouri 63147-2913

2. Emergency notifications may be made 24-hours a day, 7 days a week by calling the District's dispatcher at (314) 768-6260.

3. During normal business hours, notifications may be made by calling the District's Department of Environmental Compliance at (314) 436-8710.

SECTION II - SPECIAL CONDITIONS:

These Special Conditions may supplement and/or amend the standard terms of this permit or the General Conditions in Section I. Where there is any perceived conflict between a Special Condition and either the standard permit terms or the General Conditions of Section I, the Special Condition shall govern.

A. Special Sampling and Analytical Procedures:

1. The permittee is authorized to perform self-monitoring at sampling point 003 using grab samples in lieu of the composite samples specified in General Condition I.A.3. Each quarterly self-monitoring report shall include a statement that the grab sample results accurately represent the permittee's average daily discharge.

B. Special Certification and Reporting Requirements:

1. At sampling point 003 permittee is required to sample the discharge only **once per year**. For the quarters in which no sampling is performed, permittee shall include, in the quarterly self-monitoring report, a statement that there has been no change in the character of the wastes discharged at sampling point 003 since the last report.

2. Permittee is authorized to discharge not more than **1.2 millicuries** of radioactive material per year to the District's sanitary sewers. Such materials must be soluble, or dispersible if biological material, in water. This authorized level may be modified at any time should the District determine that permittee's discharge of radioactive materials, in conjunction with other user's discharges of radioactive materials, causes the aggregate of all radioactive materials entering the District's treatment plant to exceed one (1) curie per year or causes interference as defined in MSD Ordinance 8472.

The permittee shall include with each quarterly self-monitoring report, on forms supplied by the District, a radioactive materials discharge report. The report shall specify the activity discharged to the sewer system by radionuclide during the reporting period. The permittee shall also certify compliance with state and federal regulations for disposal of radioactive material by release into sanitary sewage.

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Effective Date: May 01, 2000

C. Special Billing Reporting Requirements:

1. Pursuant to District Wastewater User Charge Ordinances, the permittee has been granted a reduction in billing for used water which does not enter the District's system. The permittee is currently billed for sewer service charges based on **seventy-nine (79) percent** of the used water (on an annual basis) being discharged to the District. The permittee shall notify the District's Department of Environmental Compliance within ten (10) business days of becoming aware of any changes in operations which will change the percentage of used water discharged to the District.

D

THIS IS THE LAST PAGE OF THIS PERMIT

R

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F

T

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

FACT SHEET

Check If:

FIRST TIME PERMIT: ☐
PERMIT RENEWAL: ☒
PERMIT REVISION: ☐

Prepared by: FTG
Date: 02-17-00
Checked by: BT
Date: 4/6/00

PERMIT NO: 41121954-00 EFFECTIVE DATE: 05-01-00

EXPIRATION DATE: 04-30-05
MODIFICATION DATE(S): 7/24/01
3/14/02 (+SM)
3/29/04 (+SP004)

OTHER ACCOUNT NUMBERS: 41122163-01 & 41122164-00

COMPANY NAME: CARDINAL GLENNON CHILDREN'S HOSPITAL

PREMISE ADDRESS: 1465 & 1505 S. GRAND BLVD. ST. LOUIS, MO 63104

SIC NUMBER(S): 8069

TYPE OF OPERATION: HOSPITAL

TOTAL NUMBER OF SAMPLING POINTS: TWO
NUMBER OF: ORDINANCE 2 CATEGORICAL ☐ COMBINED ☐

CATEGORICAL INDUSTRY: YES ☐ NO ☒
IF YES, 40 CFR ☐ SUBPART ☐

EXTRA STRENGTH SURCHARGE: YES ☐ NO ☒
IF YES, BOD: ☐ COD: ☐ TSS: ☐

RETURN FACTOR: YES ☒ NO ☐ IF YES, PERCENT (%): 79

SPECIAL CONDITIONS: YES ☒ NO ☐

SUPPORTING DOCUMENTS ATTACHED:

PERMIT PREPARATION CHECK LIST:
POLLUTANT & LIMITATIONS DOCUMENTATION SHEETS: YES ☒ NO ☐
PRODUCTION BASED STDS CALCULATION SHEETS: YES ☐ NO ☒ N/A ☒
IF YES, FOR SAMPLING POINT: ☐
MOST STRICT STANDARDS CALCULATION SHEETS: YES ☐ NO ☐ N/A ☒
IF YES, FOR SAMPLING POINT: ☐
COMBINED WASTESTREAMS CALCULATION SHEETS: YES ☐ NO ☐ N/A ☒
IF YES, FOR SAMPLING POINT: ☐
OTHER: ☐

COMMENTS: ☐

PERMIT NO: 41121934-00

SAMPLING POINT REFERENCE NUMBER: 001

WASTEWATER SOURCES: SAN + NCCWT + Hosp WASTE
FLOW RATE (GPD): 68,376
BASIS FOR FLOW RATE: 100

GENERAL POLLUTANTS:
BOD ☒ COD ☒ O & G ☒ PH ☒ TEMP ☒ TSS ☒
OTHER _____

PRIORITY POLLUTANTS: TTO, Ag

BASIS FOR POLLUTANTS & LIMITATIONS:
TTO: MSD ORD #8472
Ag: KP ON 100; X-RAY FILM PROCESSING

SPECIAL CONDITION(S) REQUIRED: YES _____ NO ☒
IF YES, # _____ # _____ # _____ # _____ IS APPLICABLE.

SAMPLING POINT REFERENCE NUMBER: 003

WASTEWATER SOURCES: SANITARY 003 REMOVED 9/24/01
FLOW RATE (GPD): 1,100
BASIS FOR FLOW RATE: 100 FG

GENERAL POLLUTANTS:
BOD ☒ COD ☒ O & G ☒ PH ☒ TEMP ☒ TSS ☒
OTHER _____

PRIORITY POLLUTANTS: TTO

BASIS FOR POLLUTANTS & LIMITATIONS:
TTO: MSD ORD #8472

SPECIAL CONDITION(S) REQUIRED: YES ☒ NO _____
IF YES, # D.1 # E.4 # _____ # _____ IS APPLICABLE.

Company Name: CARDINAL GLENNON CHILDREN'S HOSP Cat: 49

Prepared By: FG
Reviewed By / Date: _____

Acct. Number: 41121954-00 Date: 02-17-00

PERMIT PREPARATION CHECK LIST (Rev 02/29/96)

REVIEW THE PRETREATMENT DATABASE AND INDUSTRY FILE. ANSWER THE FOLLOWING QUESTIONS AND UPDATE THE DATABASE PRIOR TO DEVELOPING THE DRAFT PERMIT. ATTACH COMPLETED CHECK LIST TO PERMIT FACT SHEET.

1. Are the correct SIC numbers listed? ☒ Yes ☐ No
If No - add: _____
- delete: _____
2. Is user in surcharge - Category 2? ☐ Yes ☒ No
If Yes - date last certified: _____
Special Condition F.2 is applicable.
3. Does user have more than one water account? ☒ Yes ☐ No
If Yes - is PSIM using the most appropriate account number? ☒ Yes ☐ No
If No - what account number should be used?
_____ Prepare Jar 019 request.
4. If user has only one water account, do the discharge factors provide an accurate representation of the flows at each sampling point? ☒ N/A ☐ Yes ☐ No
If No - explain: _____
5. Does user have a return factor less than 1.00 for any account? ☒ Yes ☐ No
If Yes - list account number, return factor and date updated:
41121954- RF 0.79 UPDATED 04-29-98 VIA BUFFY SKINNER.
_____ RF _____ UPDATED _____
Special Condition (F.1) is applicable.
6. Does user discharge water from a source not included in MSD's billing system? ☐ Yes ☒ No
If Yes - Special Condition F.3 is applicable.
7. Has user been granted a variance from an ordinance limitation? ☐ Yes ☒ No
If Yes - parameter(s) _____ at sampling point(s) _____
Special Condition C.4 is applicable.
8. Does user discharge any radioactive waste? ☒ Yes ☐ No
If Yes - Special Condition (E.18) is applicable?
9. Do all of the user's active connections, to the District sewers, have identified sampling points? ☒ Yes ☐ No
If No - how many do not? _____
Explain: _____
If No - can Special Condition E.5, E.6, E.7 or E.8 be used? ☐ Yes ☐ No
If Yes - is documentation sufficient? ☐ Yes ☐ No
If No - is compl schedule necessary to establish documentation? ☐ Yes ☐ No
If Yes - Special Condition G.1 is applicable.
10. Does user have upstream/downstream sampling points? ☐ Yes ☒ No
If Yes - upstream # _____ & downstream # _____
If Yes - Special Conditions D.11 and E.9 are applicable.

Acct. Number: 41121954-00

11. Are there any inactive wastewater connections to District sewers? Yes ☒ No
If Yes - does Special Condition E.10 apply? Yes ☐ No ☐
12. Do the Sampling Point Location comments specifically locate the sampling point(s)? Yes ☒ No ☐
13. Do the Wastewater Source and Category comments accurately identify the wastewater discharged and the applicable categorical standards? Yes ☒ No ☐
14. Are there any sampling points identified as Dry Justified? Yes ☐ No ☒
If Yes - which sampling point(s) _____.
Special Condition E.3 is applicable.
15. Are there sampling points which convey stormwater in addition to wastewater? Yes ☐ No ☒
If Yes - which sampling point(s): _____.
Special Condition D.10 is applicable.
16. Are there sampling points subject to a NPDES permit? Yes ☐ No ☒
If Yes - which sampling point(s): _____.
Special Condition E.14 is applicable.
17. Does user discharge any process waste? Yes ☒ No ☐
If No - does Special Condition B.1, B.2 or B.3 apply? Yes ☐ No ☐
18. Are there sampling points which convey no process waste flows? Yes ☒ No ☐
If Yes - does Special Condition E.3 apply? Yes ☐ No ☒
If Yes - which sampling point(s): _____.
19. Can grab samples be used in lieu of composite samples? Yes ☒ No ☐
If Yes - which sampling point(s): 003 _____.
If Yes - is documentation adequate? Yes ☐ No ☐
Special Condition (D.1) is applicable.
20. Are there sampling points with less than quarterly sampling frequency for all parameters? Yes ☒ No ☐
If Yes - which sampling point(s): 003 _____.
Special Condition (E.4) is applicable.
21. Do the ordinance discharge limits correspond to the watershed? Yes ☒ No ☐
Watershed is classified small _____ or large ✓ river.
22. Are all applicable priority pollutants listed at ordinance sampling points? Yes ☒ No ☐
If No - add: _____.
- delete: _____.
23. Can user be exempted from monitoring for local limits T10 at any ordinance sampling point(s)? Yes ☐ No ☒
If Yes - which sampling point(s) _____.
If Yes - explain _____

24. Does user have a history of compliance problems at this or a previous location? Yes ☒ No
If Yes - is a compliance schedule required? Yes ☐ No
If Yes - Special Condition G.1 is applicable.
25. Is user a categorical user? Yes ☒ No
If No - questions 26 through 39 can be skipped.
26. Do any sampling points have both Ordinance & Categorical limits? Yes ☐ No
If Yes - which sampling point(s): _____
Special Condition C.3 is applicable. Attach worksheet.
27. Is the Combined Wastestream Formula (CWF) required? Yes ☐ No
If Yes - which sampling point(s): _____
If Yes - date last calculated: _____
Special Condition C.2 is applicable. Attach CWF worksheet.
28. Are there process discharges, from a categorical operation, for which standards have not been promulgated? Yes ☐ No
If Yes - which sampling point(s): _____
Is Special Condition E.20 applicable? Yes ☐ No
29. Are categorical limitations based on production rates? Yes ☐ No
If Yes - which sampling point(s): _____
If Yes - date last calculated: _____
Do Special Conditions C.1, E.1 or E.2 apply? Yes ☐ No
If Yes - which Special Condition(s): _____
30. Are categorical limitations mass limits? Yes ☐ No
If Yes - which sampling point(s): _____
Special Condition E.19 is applicable.
31. Is user a job shop electroplater with >10,000 gpd? Yes ☐ No
If Yes - Special Condition D.2 is applicable.
32. Is user a soap and detergent manufacturer subject to 40 CFR 417? Yes ☐ No
If Yes - are they subject to Subparts O, P, Q or R? Yes ☐ No
If Yes - for Subpart O, Special Condition B.4 is applicable.
If Yes - for Subpart P, Special Condition B.5 is applicable.
If Yes - for Subpart Q, Special Condition B.6 is applicable.
If Yes - for Subpart R, Special Condition B.7 is applicable.
33. Is user a leather tanner/finisher subject to 40 CFR 425? Yes ☐ No
If Yes - under Appendix A, Special Condition D.6 is applicable.
If Yes - under Appendix B, Special Condition D.7 is applicable.
34. Is user a pharmaceutical manufacturer subject to 40 CFR 439? Yes ☐ No
If Yes - have they certified to the absence of cyanide? Yes ☐ No
If Yes - Special Condition E.15 is applicable.
If No - must total cyanide limitations be adjusted? Yes ☐ No
If Yes - calculate adjusted limitations. Attach worksheet.
35. Is user a metal molder/caster subject to 40 CFR 464? Yes ☐ No
If Yes - Special Condition D.4 is applicable.

Acct. Number:

41121954-00

36. Is user a coil coater subject to 40 CFR 465? Yes No
If Yes - Special Conditions D.5 and E.16 are applicable.
If Yes - is user subject to 40 CFR 465 Subpart D? Yes No
If Yes - Special Conditions D.9 and E.17 are applicable.
If Yes - is there a separate categorical sampling point
for the regulated waste? Yes No
If Yes - include O&G (Hydrocarbon) in the list of parameters
at the categorical sampling point.
If No - and categorical waste discharges at a combined ord/cat
sampling point, include O&G (Total) and O&G (Hydrocarbon) in
the list of parameters at the combined sampling point.
37. Do any sampling points have both Ordinance & Categorical TTO limits? Yes No
If Yes - which sampling point(s): .
Is Special Condition E.13 applicable? Yes No
If Yes - explain: .
38. Can user certify, in lieu of monitoring, for categorical TTO at
a categorical or combined sampling point? Yes No
If Yes - which sampling point(s): .
Special Condition E.11 or E.12 is applicable.
39. May user monitor for Oil & Grease, in lieu of TTO, at a
categorical sampling point? Yes No
If Yes - which sampling point(s): .
If Yes - Special Condition D.8 is applicable.
If Yes - is a modification of Special Condition E.13 applicable? Yes No
40. Is user required to monitor for Total Phenols? Yes ☒ No
If Yes - is Special Condition D.3 applicable? Yes No
41. Are all SARA Data pollutants monitored? ☒ N/A Yes No
If No - do additional pollutants need to be monitored? Yes No
If Yes - list pollutant(s): .
42. Are all Haz Waste Report (403.12(p)) pollutants monitored? ☒ N/A Yes No
If No - do additional pollutants need to be monitored? Yes No
If Yes - list pollutant(s): .
43. Are there any special billing provisions, not previously
listed, that require a Special Condition in the permit? Yes ☒ No
If Yes - describe:
44. Are any Special Conditions other than the standard Special
Conditions needed? Yes ☒ No
If Yes - please describe:

Acct. Number: 41121954-00

SUMMARY: List all the Special Conditions applicable to this permit:

D.1 # E.4 # E.18 # F.1 # _____ # _____ # _____ # _____

If Special Condition G.1 is applicable, outline the requirements & dates below:

PERMIT MODIFICATION
DOCUMENTATION FORM

Permit to be Modified:

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL

Location: 1465 S. GRAND BLVD. ST. LOUIS, MO 63104

Permit No: 4112154-00 Effective Date: 09.24.01

What is to be Modified:

Briefly explain what is to be modified and then list the pages affected.

REMOVE 003 & TWO RELATED SPECIAL CONDITIONS.

Pg. # ① ADD MAP DATE, REMOVE SP003 REFERENCE.

Pg. # ② SP003; ADD "THIS PAGE VOID".

Pg. # ⑨ REMOVE SPECIAL CONDITIONS E.4 & D.1; 003.

Pg. # ⑩ REMOVE PAGE 10.

Reasons for Modification: (Cite regulation, policy, etc. and identify any other documents which support the modification)

SEE JEG'S 9/17/01 MEMO TO IND. FILE.

Modification Form Prepared By: FG Date: 09.18.01

Permit Modified by: FG Date: 09.18.01

Entire permit reissued NO (or) only pages 1, 3, & 9 modified.

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

DOCUMENTATION FORM for MODIFICATION

GDb: ☒
P:\ ☒
ECIMS: ☒
File: ☒

Permit to be Modified:

Company Name: SSM CARDINAL GUENNON CHILDREN'S HOSPITAL

Location: 1465 S. GRAND BLVD. ST. LOUIS, MO 63104

Permit No: 41121954-00 Effective Date: 03.29.04

What is to be Modified:

Briefly explain what is to be modified and then list the pages affected.

ADD NEW SP 004.

Pg. # 1 ADD MOD. DATE. ADD SP 004.

Pg. # 3A ADD PG 3A & SP 004.

~~Pg. #~~

~~Pg. #~~

Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification.

ANNUAL 1/15/04 DISTRICT FACILITY INSPECTION IDENTIFIED CHANGE.

Prepared by: <u>FG</u>	Date: <u>03.16.04</u>
Reviewed by: <u>DMM</u>	Date: <u>03-17-04</u>

Permit Modified by: <u>FG</u>	Date: <u>03.16.04</u>
Entire Permit Reissued?	<u>~ NO ~</u>
Only these pages modified:	

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL WASTEWATER DISCHARGE PERMIT

BR: ✓
FILE: ✓

DOCUMENTATION FORM for MODIFICATION

Permit to be Modified:

Company Name: SSM CARDINAL GLENNON CHILDREN'S HOSP.

Location: 4655 GRAND BLVD. ST. LOUIS, MO 63104

Permit No: 41121954-00 Effective Date: 08/14/02

What is to be Modified:

Briefly explain what is to be modified and then list the pages affected.

ADD "SSM" TO HOSPITAL NAME

Pg. # 1 ① ADD MODIFICATION DATE. ② ADD "SSM" TO PERMITEE'S NAME.

Pg. # _____

Pg. # _____

Pg. # _____

Reasons for Modification:

Cite regulation, policy, etc. and identify any other documents which support the modification.

02/02/02 PHONE CALL TO PERMITEE IDENTIFIED CHANGE

Prepared by: <u>FG</u>	Date: <u>2/8/02</u>
Reviewed by: <u>DMM</u>	Date: <u>3/8/02</u>

Permit Modified by: <u>FG</u>	Date: <u>2/8/02</u>
Entire Permit Reissued?	<u>NO</u>
Only these pages modified:	<u>1</u>



Metropolitan
St. Louis Sewer
District

FOR MSD USE ONLY			
ACCOUNT NUMBER:	<u>4121954-00</u>	CATEGORY:	1 2 3 4 5 6 7 8 9
TA:	<u>BP</u>	Reviewer's Initials:	<u>FG</u>
TS:	<u>OLO MILLER</u>	Date:	<u>11/5/99</u>

**METROPOLITAN ST. LOUIS SEWER DISTRICT
DEPARTMENT OF ENVIRONMENTAL COMPLIANCE
INDUSTRIAL USER QUESTIONNAIRE**

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

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SECTION A - GENERAL INFORMATION

1. Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL
2. Mailing Address: 1465 SOUTH GRAND BLVD.
ST. LOUIS, MO. Zip Code 63104-1095
3. Premise Address: 1465 SOUTH GRAND & 1505 SOUTH GRAND
ST. LOUIS, MO. Zip Code 63104-1095
4. Person Authorized to Sign Reporting Documents:
Name and Title: KEVIN R. JULIUS, DIRECTOR OF SAFETY & SECURITY
Tel No. 314-268-4117
5. Check one: ☒ Existing Discharge
☐ Proposed Discharge If proposed, indicate discharge start date: _____
6. Shift Information:
 - a. Number of shifts per work day: 3 and work days per week: 7
 - b. Average number of employees per shift: 1st 600 ± 2nd 400 ± 3rd 350 ± Total: 1350 ±
 - c. Shift start times: 1st 0800 2nd 1600 3rd 2400

SECTION B - PRODUCT OR SERVICE INFORMATION

1. Briefly describe the primary manufacturing or service activities at the premise address and list the applicable SIC number for each activity:

PRIMARY ACTIVITIES	SIC NUMBER
a. <u>HEALTH CARE AND HOSPITAL</u>	<u>8062</u>
b. _____	_____
c. _____	_____
d. _____	_____

Company Name: CARLSON GLENNON CHILDREN'S HOSP.
Premise Address: 1465 SO. GRAND
Account Number: 41121954-00

SECTION B - PRODUCT OR SERVICE INFORMATION (Cont'd)

2. Are primary activities generally batch or continuous processes? ☐ batch ☒ continuous
3. Principal raw materials used: _____
4. Principal products produced: _____
5. Check all activities which are conducted at your premise in addition to the primary activities described in B.1 above. Indicate the SIC number, if known. Do not check activities which are already included in B.1.

	SIC NO.		SIC NO.
<input type="checkbox"/> Adhesive & Sealants Mfg.	_____	<input type="checkbox"/> Mineral Mining & Processing	_____
<input type="checkbox"/> Aluminum Forming	_____	<input type="checkbox"/> Nonferrous Metals Forming	_____
<input type="checkbox"/> Asbestos Mfg.	_____	<input type="checkbox"/> Nonferrous Metals Mfg	_____
<input type="checkbox"/> Battery Mfg.	_____	<input type="checkbox"/> Organic Chem., Plastics & Synthetic Fibers Mfg	_____
<input type="checkbox"/> Builder's Paper and Roofing Felt Mfg.	_____	<input type="checkbox"/> Paint Formulating	_____
<input type="checkbox"/> Carbon Black Mfg.	_____	<input type="checkbox"/> Painting, Finishing or Paint Stripping	_____
<input type="checkbox"/> Cement Mfg.	_____	<input type="checkbox"/> Parts Washing	_____
<input type="checkbox"/> Coil Coating	_____	<input type="checkbox"/> Paving and Roofing Materials	_____
<input type="checkbox"/> Copper Forming	_____	<input type="checkbox"/> Pesticide Chem. Mfg., Formulating, Packaging	_____
<input type="checkbox"/> Dairy Products Processing	_____	<input type="checkbox"/> Petroleum Refining	_____
<input type="checkbox"/> Drum Reconditioning	_____	<input type="checkbox"/> Pharmaceutical Mfg	_____
<input type="checkbox"/> Electrical and Electronic Components	_____	<input type="checkbox"/> Phosphate Mfg	_____
<input type="checkbox"/> Electroplating	_____	<input checked="" type="checkbox"/> Photographic Processing	_____
<input type="checkbox"/> Explosive Mfg.	_____	<input type="checkbox"/> Plastic Molding and Forming	_____
<input type="checkbox"/> Feedlots	_____	<input type="checkbox"/> Porcelain Enameling	_____
<input type="checkbox"/> Ferroalloy Mfg.	_____	<input type="checkbox"/> Printing & Publishing	_____
<input type="checkbox"/> Fertilizer Mfg.	_____	<input type="checkbox"/> Pulp, Paper & Paperboard Mfg	_____
<input checked="" type="checkbox"/> Food Preparation	_____	<input type="checkbox"/> Q. C. Laboratory	_____
<input type="checkbox"/> Fruits and Vegetable Processing	_____	<input type="checkbox"/> R & D Laboratory	_____
<input type="checkbox"/> General Offices	_____	<input checked="" type="checkbox"/> Radioactive Materials Processing	_____
<input type="checkbox"/> Glass Mfg.	_____	<input type="checkbox"/> Repair Shop, Garage	_____
<input type="checkbox"/> Grain Milling	_____	<input type="checkbox"/> Rubber & Rubber Prod. Mfg.	_____
<input type="checkbox"/> Gum & Wood Chemical Mfg.	_____	<input type="checkbox"/> Seafood Processing	_____
<input type="checkbox"/> Hazardous Waste Treatment, Storage or Disposal	_____	<input type="checkbox"/> Soap and Detergent Mfg.	_____
<input type="checkbox"/> Health Care & Hospital	_____	<input type="checkbox"/> Solvent Recycling	_____
<input type="checkbox"/> Industrial Laundry	_____	<input type="checkbox"/> Steam Electric Power Generation	_____
<input type="checkbox"/> Ink Formulating	_____	<input type="checkbox"/> Sugar Processing	_____
<input type="checkbox"/> Inorganic Chemicals Mfg.	_____	<input type="checkbox"/> Textile Mills	_____
<input type="checkbox"/> Iron and Steel Mfg.	_____	<input type="checkbox"/> Timber Products Mfg.	_____
<input type="checkbox"/> Leather Tanning and Finishing	_____	<input type="checkbox"/> Transportation Equipment Cleaning	_____
<input type="checkbox"/> Machine Shop	_____	<input type="checkbox"/> Transportation Services	_____
<input type="checkbox"/> Machinery Mfg. or Rebuilding	_____	<input type="checkbox"/> Used Oil Reclamation	_____
<input type="checkbox"/> Meat Processing	_____	<input type="checkbox"/> Vehicle/equipment Washing	_____
<input type="checkbox"/> Metal Finishing	_____	<input type="checkbox"/> Warehousing	_____
<input type="checkbox"/> Metal Molding and Casting	_____	<input type="checkbox"/> Waste Recycling	_____
		<input type="checkbox"/> Others _____	_____

6. Are your processes subject to seasonal variation? ☐ Yes ☒ No
If "Yes," explain and indicate the month(s) of peak activity. _____

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Company Name: St. Cardinal Glennon Children's HospitalPremise Address: 1461 South Grand Blvd.Account Number: 412,1254-00

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s): ☐ City of St. Louis Water Div. ☐ Surface water
☐ St. Louis County Water Co. ☐ Private well
☐ Other municipal source _____ ☐ Other (describe) _____
☐ Hauled by contractor _____

2. Water Bill Addressee: St. Cardinal Glennon Children's Hospital3. Water Service Account Numbers: J. 22627000

4. List past twelve months water usage from:
- | 1st 3 mo period | 01 | Mo | 02 | Yr | through | 08 | Mo | 02 | Yr | 11464 | Ccf | | Ccf | | | | |
|-----------------|----|----|----|----|---------|----|----|----|----|-------|-----|--|-----|--|--|--|--|
| 2nd 3 mo period | 08 | Mo | 02 | Yr | through | 10 | Mo | 02 | Yr | 17350 | Ccf | | Ccf | | | | |
| 3rd 3 mo period | 10 | Mo | 02 | Yr | through | 01 | Mo | 04 | Yr | 12339 | Ccf | | Ccf | | | | |
| 4th 3 mo period | | Mo | | Yr | through | | Mo | | Yr | | Ccf | | Ccf | | | | |

5. Describe any treatment or conditioning process performed on the raw water before use: Water softener

6. Identify all water uses within your facility:

Water Uses	Estimated Average Daily Use (Gallons per day)
------------	---

- a. Sanitary 38000
b. Irrigation & lawn watering 10850
c. Non-contact cooling water 2619
d. Contact cooling water _____
e. Process water _____
f. Plant & equipment washdown _____
g. Boiler 9725
h. Other uses Hospital water 33000
i. Total of USES (6a through 6h): 94204

7. Identify all water losses and wastewater discharges from your facility:

Water Losses & Discharges	Estimated Average Daily Loss/Discharge (Gallons per Day)
---------------------------	--

- a. Municipal sewer 74421
b. Watercourse, storm drain, ground 10850
c. Haulers _____
d. Evaporation 8933
e. Contained in product _____

f. Total of LOSSES & DISCHARGES: 94204
(7a through 7e must equal total at 6i)

8. For each activity you listed in Sections B.1 and B.5, list the average water usage and average wastewater discharge. Attach additional sheets, if needed.

Item No.	Activity	Type of Discharge			Avg. Water Use (GPD)	Avg. Discharge to Mun Sewer (GPD)	Date when activity first commenced at this facility
		Cont	Batch	None			
	Sanitary	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	38000	38000	
	Lawn Irrigation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10850	0	
	Hospital Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	33000	33000	
	NSCW Boiler (Bender, C.T. Bender)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12339	3421	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Company Name: Cardinal Glennon Children's Hosp.
Premise Address: 1465 S. Grand
Account Number: 41121954-00

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s): ☒ City of St. Louis Water Div. ☐ Surface water
☐ St. Louis Co. Water Co. ☐ Private Well
☐ Other Municipal Source _____ ☐ Other (describe) _____
☐ Hauled by Contractor _____
2. Water Bill Addressee: Cardinal Glennon Children's Hospital
3. Water Service Account Numbers: 407328-227084, 407331-227086, 405153-226370
4. List past twelve months water usage from:
- | | Water Bills | Other Sources |
|---|--------------------|---------------|
| a. 1st quarter <u>7-23 1998</u> through <u>10-18 1998</u> | <u>11535</u> Ccf | _____ Ccf |
| b. 2nd quarter <u>10-20 1998</u> through <u>1-27 1999</u> | <u>4700</u> Ccf | _____ Ccf |
| c. 3rd quarter <u>1-27 1999</u> through <u>4-23 1999</u> | <u>10476.7</u> Ccf | _____ Ccf |
| d. 4th quarter <u>4-19 1999</u> through <u>7-29 1999</u> | <u>11812</u> Ccf | _____ Ccf |

5. Describe any treatment or conditioning process performed on the raw water before use: N/A

6. Identify all water uses within your facility:
7. Identify all water losses and wastewater discharges from your facility:

Estimated average
daily use
(Gallons per Day)

Water Uses

- a. Sanitary 24000 53800 44000
- b. Irrigation & lawn watering 12850 16407
- c. Non-contact cooling water 4225 700
- d. Contact cooling water _____
- e. Process water 9874 14000
- f. Plant & equipment washdown _____
- g. Boiler 12360
- h. Other uses Soft. Regen 220
- i. Total of USES (6a through 6h): 78946 97,807

Water Losses & Discharges

- a. Municipal sewer 47296 77,960
- b. Watercourse, storm drain, ground 10850 16,047
- c. Haulers _____
- d. Evaporation 3800
- e. Contained in product _____

Estimated average
daily loss/discharge
(Gallons per Day)

- f. Total of LOSSES & DISCHARGES: 78946 97,807
(7a through 7e must equal total at 6i)

8. List average water usage and average wastewater discharge for each activity listed in Sections B.1 and B.5. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge Cont. Batch None	Avg Water Use (GPD)	Avg Discharge to Mun. sewer (GPD)	Date When Activity First Commenced At This Facility
B1	Healthcare & Hospital	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	54000	54000	1957
B5	Surgical Operations	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	3297	3297	1957
B5	Food Prep	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	6574	6574	1957
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			

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NOTED & APPROVED JAN 28/2000
during 01/15/04 Environmental Compliance

Company Name: CARDINAL GLENNON CHILDREN'S HOSP.
 Premise Address: 1465 So. Grand
 Account Number: 41121954-00

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s): ☒ City of St. Louis Water Div. ☐ Surface water
☐ St. Louis Co. Water Co. ☐ Private Well
☐ Other Municipal Source ☐ Other (describe) _____
☐ Hauled by Contractor
2. Water Bill Addressee: CARDINAL GLENNON CHILDREN'S HOSPITAL
3. Water Service Account Numbers: 407328-227084, 407331-227086, 405153-226370
4. List past twelve months water usage from: ☒ Water Bills ☐ Other Sources
- | | 1st quarter | 2nd quarter | 3rd quarter | 4th quarter | Water Bills | Other Sources |
|----------------|--|-------------|-------------|-------------|--------------------|---------------|
| a. 1st quarter | <u>7-23</u> 19 <u>98</u> through <u>10-18</u> 19 <u>98</u> | | | | <u>11535</u> Ccf | |
| b. 2nd quarter | <u>10-20</u> 19 <u>98</u> through <u>1-27</u> 19 <u>99</u> | | | | <u>4700</u> Ccf | |
| c. 3rd quarter | <u>1-27</u> 19 <u>99</u> through <u>4-23</u> 19 <u>99</u> | | | | <u>10476.7</u> Ccf | |
| d. 4th quarter | <u>4-19</u> 19 <u>99</u> through <u>7-29</u> 19 <u>99</u> | | | | <u>11812</u> Ccf | |
5. Describe any treatment or conditioning process performed on the raw water before use: N/A

6. Identify all water uses within your facility:
- | Water Uses | Estimated average daily use (Gallons per Day) |
|------------------------------------|---|
| a. Sanitary | <u>21400</u> <u>28858</u> <u>44000</u> |
| b. Irrigation & lawn watering | <u>2170</u> <u>1640</u> |
| c. Non-contact cooling water | <u>3250</u> <u>700</u> |
| d. Contact cooling water | |
| e. Process water | <u>1836</u> <u>1000</u> |
| f. Plant & equipment washdown | |
| g. Boiler & C. line tower blowdown | <u>8260</u> |
| h. Other uses | |
| i. Total of USES (6a through 6h): | <u>33444</u> <u>97807</u> |
7. Identify all water losses and wastewater discharges from your facility:
- | Water Losses & Discharges | Estimated average daily loss/discharge (Gallons per Day) |
|-------------------------------------|--|
| a. Municipal sewer | <u>28822</u> <u>77960</u> |
| b. Watercourse, storm drain, ground | <u>2170</u> <u>1640</u> |
| c. Haulers | |
| d. Evaporation | <u>2762</u> |
| e. Contained in product | |
| f. Total of LOSSES & DISCHARGES: | <u>97807</u> |
- (7a through 7e must equal total at 6i)

8. List average water usage and average wastewater discharge for each activity listed in Sections B.1 and B.5. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge Cont. Batch None	Avg Water Use (GPD)	Avg Discharge to Mun sewer (GPD)	Date When Activity First Commenced At This Facility
1	HEALTHCARE & HOSPITAL	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<u>33114</u>	<u>33114</u>	<u>UNKNOWN</u>
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			

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SEE PG 2 DTD 11/26/00

Company Name: Cardinal Glennon Children's Hosp
Premise Address: 1465 So. Grand
Account Number: 41121954-00

SECTION C - WATER CONSUMPTION AND WASTEWATER DISCHARGES

1. Raw Water Source(s): ☒ City of St. Louis Water Div. ☐ Surface water
☐ St. Louis Co. Water Co. ☐ Private Well
☐ Other Municipal Source _____ ☐ Other (describe) _____
☐ Hauled by Contractor _____

2. Water Bill Addressee: Cardinal Glennon Children's Hospital

3. Water Service Account Numbers: 407328-227084, 407331-227086, 405153-226370

4. List past twelve months water usage from:
- | | <input checked="" type="checkbox"/> Water Bills | <input type="checkbox"/> Other Sources |
|---|---|--|
| a. 1st quarter <u>7-22 1998</u> through <u>10-18 1998</u> | <u>11535</u> Ccf | _____ Ccf |
| b. 2nd quarter <u>10-18 1998</u> through <u>1-25 1999</u> | <u>4700</u> Ccf | _____ Ccf |
| c. 3rd quarter <u>1-25 1999</u> through <u>4-17 1999</u> | <u>10476.7</u> Ccf | _____ Ccf |
| d. 4th quarter <u>4-17 1999</u> through <u>7-17 1999</u> | <u>1182.3</u> Ccf | _____ Ccf |

5. Describe any treatment or conditioning process performed on the raw water before use: N/A

6. Identify all water uses within your facility: 7. Identify all water losses and wastewater discharges from your facility:

Estimated average daily use (Gallons per Day)

Water Uses

- a. Sanitary 28858
b. Irrigation & lawn watering 2320
c. Non-contact cooling water 3250
d. Contact cooling water _____
e. Process water 1836
f. Plant & equipment washdown _____
g. Boiler _____
h. Other uses _____
i. Total of USES (6a through 6h): 33114

Estimated average daily loss/discharge (Gallons per Day)

Water Losses & Discharges

- a. Municipal sewer 28882
b. Watercourse, storm drain, ground 2320
c. Haulers _____
d. Evaporation 2762
e. Contained in product _____
f. Total of LOSSES & DISCHARGES: 33114
(7a through 7e must equal total at 6i)

8. List average water usage and average wastewater discharge for each activity listed in Sections B.1 and B.5. Attach additional sheets if needed.

Item No.	Activity	Type of Discharge Cont. Batch None	Avg Water Use (GPD)	Avg Discharge to Mun sewer (GPD)	Date When Activity First Commenced At This Facility
1.	Healthcare & Hospital	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	33114	33114	Unknown
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
		<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			

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Company Name: SUM Cardinal Glennan Children's HospPremise Address: 1465 South Grand Blvd.Account Number: 41121958-00

SECTION D - SEWER CONNECTION INFORMATION

- Attach a scale drawing of your premise, which shows:
 - All buildings, structures, alleys, streets and other pertinent features.
 - All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
 - A sampling point for each connection to the public sewer.
 - A sampling point for each discharge from a federally regulated categorical process.
 - A sampling point for each discharge to a separate storm sewer or watercourse.
- List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each location, starting with No. 1. Attach additional sheets, if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1		MH on sidewalk S of Viny Ave E of overhead walkway, Near Entrance	67241
2			7000
3			
4		MH 3'W from SW corner of Emergency building	7000
5			

SECTION E - WASTEWATER INFORMATION

- For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets, if needed.

Type of Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total (See instr.)
	001	2	3	004	5	
a. Sanitary	34000			4000		38000
b. Irrigation & lawn watering						
c. Non-contact cooling water	161					161
d. Contact cooling water						
e. Process (From C.8)						
Hospital waste	30000			3000		33000
f. Plant & equipment washdown						
g. Boiler blowdown	1630					1630
h. Other (Cooling tower blowdown)	1630					1630
Regeneration Waste (C.5)						
Totals (Same as D.2):	67421			7000		74421

- If any of the above points discharge to a watercourse or to a separate storm sewer, complete the following:

NPDES Outfall Number _____

NPDES Permit Number _____

- Do any of the above sampling points also convey stormwater from your premise?

☒ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

- Do you pretreat any of the wastes discharged through any of the above points?

☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

Bud Frederick 3-9-04 change reflect hospital expansion during inspection

Company Name: Madison Children's Hosp.
 Premise Address: 1465 S. Grand
 Account Number: 41121954-00

SECTION D - SEWER CONNECTION INFORMATION

- Attach a scale drawing of your premise which shows:
 - All buildings, structures, alleys, streets and other pertinent features.
 - All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
 - A sampling point for each connection to the public sewer.
 - A sampling point for each discharge from a federally regulated categorical process.
 - A sampling point for each discharge to a separate storm sewer or water course.
- List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets if needed.

Reference Number	Sewer Size (Inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	24"	Manhole in Vista Ave. Sidewalk, NE corner of Property	62596
2	8"	Vent on Parking Lot, West side of Gleason Office Bldg.	1700
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

- For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets if needed.

Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total. (See Instructions)
	Main	OFFICE 2 Bldg.	3	4	5	
a. Sanitary	52017	1700				53717
b. Irrigation & Lawn Watering						
c. Non-Contact Cooling Water	488					488
d. Contact Cooling Water						
e. Process (From C.8)						
Surg. Ops	3297					3297
Food Prep	6574					6574
f. Plant & Equipment Washdown						
g. Boiler Blowdown						
h. Other ()						
Regeneration Waste (C.5)	220					220
Totals (Same as D.2)	62596	1700				64296

- If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number _____
 NPDES Permit Number _____

- Do any of the above sampling points also convey stormwater from your premise?
☐ Yes ☒ No ☐ Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No
- Do you pretreat any of the wastes discharged through any of the above points?
☐ Yes ☐ No ☐ Yes ☒ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

Silver Recovery

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 JAN 28 2000
 Environmental Compliance

Company Name: CRIMINAL GUENNON CHILDREN'S
 Premise Address: 1465 So GRAND
 Account Number: 41121954-00

SECTION D - SEWER CONNECTION INFORMATION

- Attach a scale drawing of your premise which shows:
 - All buildings, structures, alleys, streets and other pertinent features.
 - All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
 - A sampling point for each connection to the public sewer.
 - A sampling point for each discharge from a federally regulated categorical process.
 - A sampling point for each discharge to a separate storm sewer or water course.
- List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	24"	MANHOLE IN VISCA AVE SIDEWALK, NE CORNER OF PROPERTY	32256
2	8"	MOLE ON PARKING LOT, WEST SIDE OF GUENNON OFFICE BLDG	858
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

- For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets if needed.

Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total. (See Instructions)
	MAIN	OFFICE	3	4	5	
a. Sanitary	28600	858				
b. Irrigation & Lawn Watering	2170					
c. Non-Contact Cooling Water	0488					
d. Contact Cooling Water						
e. Process (From C.8)	1836					
f. Plant & Equipment Washdown						
g. Boiler Blowdown						
h. Other ()						
Regeneration Waste (C.5)						
Totals (Same as D.2)	32494	858				

- If any of the above points discharge to a watercourse or a separate storm sewer, complete the following: N/A

NPDES Outfall Number _____
 NPDES Permit Number _____

- Do any of the above sampling points also convey stormwater from your premise? N/A
☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

- Do you pretreat any of the wastes discharged through any of the above points?
☒ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

Silver Recovery

SEE PG 4 DTP 1/28/00
 FG

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 Environmental Compliance

Company Name: Cardinal Glennon Children's Hosp.
 Premise Address: 1465 So. Grand
 Account Number: 41121954-00

SECTION D - SEWER CONNECTION INFORMATION

- Attach a scale drawing of your premise which shows:
 - All buildings, structures, alleys, streets and other pertinent features.
 - All sewers and drains, including all connections, inlets, manholes, vents and other access or control structures. Identify each sewer as sanitary, storm or combined and indicate its size.
 - A sampling point for each connection to the public sewer.
 - A sampling point for each discharge from a federally regulated categorical process.
 - A sampling point for each discharge to a separate storm sewer or water course.
- List each sampling point identified in 1.c, d and e above and each connection for which there is no sampling point. Assign a sequential reference number to each point, starting with No. 1. Attach additional sheets if needed.

Reference Number	Sewer Size (inches)	Description of sewer sampling point or connection (Vent, manhole, valve, tank or other appurtenance. Indicate size and location)	Total Daily Average Flow (GPD)
1	24"	Manhole on Vista Ave. Sidewalk NE Corner of Property	32256
2	8"	Hole in parking lot west side of Glennon Office Building	858
3			
4			
5			

SECTION E - WASTEWATER INFORMATION

- For each point listed in D.2 above, list the wastewater discharge corresponding to each water usage listed in Section C.6. Attach additional sheets if needed.

Type Wastewater	Discharge Quantity (GPD) for each sampling point or connection listed in D.2					Facility Total. (See Instructions)
	Main 1	Office 2 Bldg.	3	4	5	
a. Sanitary	28000	858				
b. Irrigation & Lawn Watering	2170					
c. Non-Contact Cooling Water	0488					
d. Contact Cooling Water						
e. Process (From C.8)	1598					
f. Plant & Equipment Washdown						
g. Boiler Blowdown						
h. Other ()						
Regeneration Waste (C.5)						
Totals (Same as D.2)	32256	858				

- If any of the above points discharge to a watercourse or a separate storm sewer, complete the following:

NPDES Outfall Number _____
 NPDES Permit Number _____

- Do any of the above sampling points also convey stormwater from your premise?

☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

- Do you pretreat any of the wastes discharged through any of the above points?

☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

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Company Name: CHRYSLER GREENWOOD CHILDREN'S HOSP
Premise Address: 1465 So Grand
Account Number: 41121954-00

SECTION E - WASTEWATER INFORMATION (Cont'd)

5. Describe the type of wastewater pretreatment you employ prior to each point for which you marked "Yes" in E.4:

Point No.	Pretreatment System Description
001	Silver recovery equipment

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6. Does your facility have:
- | | | | |
|-------------------------------|---|-----------------------------------|---|
| a. A spill control plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | c. A solvent management plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| b. A waste minimization plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | d. A slug discharge control plan? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
7. If any wastewater analyses have been performed on the wastewater discharges from your facility attach copies of the most recent data. Be sure to specify the locations from which the samples were collected. Attach sketches, plans, drawings, etc. as necessary.
8. Priority Pollutant Information: Check one of the four boxes by each listed chemical to indicate whether it is: "Suspected Absent", "Known Absent", "Suspected Present", or "Known Present" **ON YOUR PREMISE**. Any chemical which is used in your manufacturing or service activity or is generated as a product or as a by-product should be marked "Known Present". Some pollutants are known by other names. Refer to the instruction booklet for those pollutants which have an asterisk (*).

SA = "Suspected Absent"

KA = "Known Absent"

SP = "Suspected Present"

KP = "Known Present"

ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP	ITEM NO.	PRIORITY POLLUTANT	SA	KA	SP	KP
1.	asbestos (fibrous).....					39.	bromoform *.....				
2.	cyanide (total).....					40.	bromomethane *.....				
3.	antimony (total).....					41.	4-bromophenylphenyl ether.....				
4.	arsenic (total).....					42.	butylbenzyl phthalate.....				
5.	beryllium (total).....					43.	carbon tetrachloride *.....				
6.	cadmium (total).....					44.	chlordane.....				
7.	chromium (total).....					45.	4-chloro-3-methylphenol *.....				
8.	copper (total).....					46.	chlorobenzene.....				
9.	lead (total).....					47.	chloroethane *.....				
10.	mercury (total).....					48.	2-chloroethylvinyl ether.....				
11.	nickel (total).....					49.	chloroform *.....				
12.	selenium (total).....					50.	chloromethane *.....				
13.	silver (total).....					51.	2-chloronaphthalene.....				
14.	thallium (total).....					52.	2-chlorophenol *.....				
15.	zinc (total).....					53.	4-chlorophenylphenyl ether.....				
16.	acenaphthene.....					54.	chrysene *.....				
17.	acenaphthylene.....					55.	4,4'-DDD *.....				
18.	acrolein.....					56.	4,4'-DDE *.....				
19.	acrylonitrile.....					57.	4,4'-DDT *.....				
20.	aldrin.....					58.	dibenzo (a,h) anthracene *.....				
21.	anthracene.....					59.	dibromochloromethane *.....				
22.	benzene.....					60.	1,2-dichlorobenzene *.....				
23.	benzidine.....					61.	1,3-dichlorobenzene *.....				
24.	benzo (a) anthracene *.....					62.	1,4-dichlorobenzene *.....				
25.	benzo (a) pyrene.....					63.	3,3'-dichlorobenzidine.....				
26.	benzo (b) fluoranthene.....					64.	Reserved.....				
27.	benzo (g,h,i) perylene *.....					65.	1,1-dichloroethane *.....				
28.	benzo (k) fluoranthene *.....					66.	1,2-dichloroethane *.....				
29.	alpha-BHC.....					67.	1,1-dichloroethene *.....				
30.	beta-BHC.....					68.	trans-1,2-dichloroethene *.....				
31.	delta-BHC.....					69.	2,4-dichlorophenol.....				
32.	gamma-BHC *.....					70.	1,2-dichloropropane *.....				
33.	bis (2-chloroethyl) ether *.....					71.	(cis & trans) 1,3-dichloropropene *.....				
34.	bis (2-chloroethoxy) methane *.....					72.	dieldrin.....				
35.	bis (2-chloroisopropyl) ether *.....					73.	diethylphthalate *.....				
36.	Reserved.....					74.	2,4-dimethylphenol *.....				
37.	bis (2-ethylhexyl) phthalate.....					75.	dimethyl phthalate.....				
38.	bromodichloromethane *.....					76.	di-n-butyl phthalate.....				

Continued on Page 6

Company Name:

Premise Address

Account Number

Priority Pollutant Information (Cont'd)

SA = "Suspected Absent"

KA = "Known Absent"

SP = "Suspected Present"

KP = "Known Present"

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* SILVER BLONIDE GENERATED IN DIAGNOSTIC IMAGING DEPT. IS RECOVERED & SOLD TO CENTRAL STATES REFINING CO. FOUR SILVER RECOVERY UNITS ARE CURRENTLY IN USE

Page 6

* #85 REMOVED FROM PREMISES VIA MR JUD.
FG 217/100

Company Name:

CARMINO CLEMOND CHILDREN'S HOSP

Premise Address:

1465 So Grand

Account Number:

41121954-00

SECTION F - NON-SEWERED WASTES

1. Do you generate any liquid wastes or sludges which are not disposed in the sewer system? ☒ Yes ☐ No
 If "Yes" complete items 2 and 3 below. Note: Be sure to include wastewaters listed in Section C.7.c.
 If "No," skip remainder of this section.

2. Information on non-sewered waste:

Type of Waste	Estimated Quantity Disposed/yr	Units	Store on-site	Dispose on-site	Dispose off-site
<input type="checkbox"/> Acids and/or Alkalies			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Equip. Oils and/or Grease	30	GALLONS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Infectious Waste	5,700	lbs	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Inks/Dyes			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Kitchen/Food Service Grease			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Organic Compounds			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Paints or Paint Sludges			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pesticides			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pretreatment Sludges			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Radioactive Waste			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Solvents/Thinners			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. List your USEPA and/or MDNR Hazardous Waste generator numbers:

USEPA MD0075904839

MDNR 001310

SECTION G - INDUSTRIAL WASTE SURCHARGE INFORMATION

1. The following analytical information is required for each sampling point or each connection to the public sewer (see D.1.c), only if your water usage exceeds 80 Ccf per month. Representative samples of the wastewater in each sewer must be collected and analyzed for the listed parameters. Concentrations are to be reported in mg/l.

Sewer Number (Refer to Section D.2)
 (If more than 5, attach additional sheets)

Daily Average Concentration For Each Sampling Point or Connection

	1	2	3	4	5
Parameter (mg/l)					
Total Solids					
Total Suspended Solids	176				
Biochemical Oxygen Demand ₅	285				
Chemical Oxygen Demand	519				
Flow (gpd)					
Date Sampled	7-30-99				
Time Sampled	7:30AM - 4:30PM				
Type of Sample					

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Company Name: CARDINAL GLENNON CHILDREN'S Hosp.
Premise Address: 1465 So. Grand
Account Number: 41121954-00

SECTION G - INDUSTRIAL WASTE (Cont'd)

2. Sample handling information:

Organization Name and Address

- a. Samples collected by: MINNTEST TESTING LABORATORIES - 2645 GRANDIS AVE, ST. LOUIS, MO 63118
b. Samples analyzed by: MINNTEST TESTING LABORATORIES, 2645 GRANDIS AVE, ST. LOUIS MO. 63118

SECTION H - CERTIFICATION AND SIGNATURE

1. The following individual may be contacted regarding the information contained in this questionnaire:

Name and title of contact person: KEVIN R. JULIUS, DIRECTOR, SAFETY & SECURITY
Tel No. 314-268-4117

2. "I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and title of signing official: KEVIN R. JULIUS, DIRECTOR OF SAFETY & SECURITY

Tel No. 314-268-4117
Signature Kevin R. Julius Date 10-28-99

List attachments included with this questionnaire:

MSD-DEC Sampling Map

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OCT 29 1999

. Name: SSM Cardinal Glennon

ct #: 4/12 1954-00

OLDER
CORRESPONDENCE
FROM
1996-1999
AND EARLIER
IS LOCATED
IN THE
OVERFLOW FILES

02-17-16 Moved to ARCHIVED PERMIT files.

1073
01/13/03
SS ✓
Per ✓
Cuts ✓
DE ✓

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☒ (OCT-DEC)

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

DEC 20 2004

You must complete and sign the certification statements on the reverse side.

1

DIVISION OF ENVIRONMENTAL COMPLIANCE

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

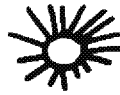
Print or type name of signing official: Bud Frederick H

Title: Facilities Manager

Telephone: 573-5327

Signature: Bud Frederick

Date: 12/15/04



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard ▪ St. Louis, MO 63104-1095
(314) 577 5600 phone ▪ www.cardinalglennon.com

418
11/09/04
Rad DE ✓

November 1, 2004

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Third Quarter 2004 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the Third Quarter of 2004 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

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THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

MSD 036549

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: October 5, 2004

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning July 1, 2004 and ending September 30, 2004.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 977-6896.

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**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

Company Name: SSM CARDINAL GLENNONE HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Blvd., St. Louis, MO 63103-1095

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☒ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: MIDWEST TESTING LABORATORIES, INC.

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

MSD SAMPLE POINT REFERENCE NUMBERS ———>		001		002 004 100		
DATES ON WHICH SAMPLES WERE COLLECTED ———>		09-02-04		09-02-04		
TIMES AT WHICH SAMPLES WERE COLLECTED ———>		7:15-3:15pm		7:15-3:15pm		
PARAMETER	LIMIT	RECORD SAMPLE TYPES (G, C, M OR E) AND RESULTS BELOW G=grab, C=composite, M=measured flow, E=estimated flow				UNITS
FLOW						
OIL & GREASE	200		24		17	mg/L
BCD	200		45		36	mg/L
COD	****		80		68	mg/L
TOTAL SUSPENDED SOLIDS	****		40		59	mg/L
TEMPERATURE (Degrees C)	60		24.1		23.8	
pH (Std. Units)	5.5-11		7.45		7.92	
SILVER	.5		0.01		0.01	mg/L

10/21/04 11:00am
 I spoke to Bud Fredericks
 + explained permit mod at
 03/29/04 inactivated 003 in
 favor of 002. They still use
 002 on reports. When asked,
 he stated sample was taken
 from 002 location.
 - They are to alert contract lab
 to correctly identify SP's.
 TCB

You must

submit all data on the reverse side.

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ENVIRONMENTAL COMPLIANCE

10/21/04
 SS ✓
 Per ✓
 Ceds ✓
 DE ✓

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SEP 17 2004

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY**. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bud Frederick H

Title: Facilities Manager

Telephone: 577-5327

Signature: Bud Frederick

Date: 8-13-04

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

TEST REPORT
 DATE: 09-02-04
 TIME: 10:45 AM
 BY: J. J. J.

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
 1465 S. Grand Boulevard
 St. Louis, Missouri 63103-1095

ANALYST: J. J. J.

PREPARED BY: J. J. J.

SAMPLE MATRIX: WASTE WATER

SAMPLE ID: Sample Point Ref. Number: 001
 Waste Water 07:00 p.m. 9-02-04
 Grab Sample 07:00 p.m. 9-02-04
 Sample Point Ref. Number: 002
 Waste Water 7:15 am to 3:15 p.m. 9-02-04
 Grab Sample 7:15 am 9-02-04

PROJECT: 001-001-001-001

RESULTS: MG/L OR PARTS PER MILLION (PPM)

ANALYTE	# 001	# 002	MDL	METHOD NUMBER
Oil & Grease	24	17	5	1664
BOD	45	36	10	2051
COD	80	68	10	4101
TSS	40	59	5	1602
Temperature (Degrees C)	24.1	23.8	01	1501
pH (Std Units)	7.45	7.92	0.02	1201
Silver	0.01	0.01	0.01	2721

NOTE: Method Detection Limit:

For all methods tested specimens provided for analysis

Diruth n. h. h.



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

July 2, 2004

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Second Quarter 2004 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the Second Quarter of 2004 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

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JUL 08 2004

THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD

DIVISION OF
ENVIRONMENTAL COMPLIANCE

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: July 2, 2004

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning April 1, 2004 and ending June 30, 2004.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 977-6896.

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JUL 08 2004

DIVISION OF
ENVIRONMENTAL COMPLIANCE

6/25/24

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Monitoring Period: ☐ (JAN-MAR)

☐ (JULY-SEPT)

□(OCT-DEC)

Analyses Performed By: MIDWEST TESTING LABORATORIES INC

→ 004 VIA MR. FREDERICK.

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JUN 7 5 2004

DIVISION OF ENVIRONMENTAL COMPLIANCE

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413); Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bud Frederick

Title: Facilities Manager

Telephone: 577-5327

Signature: Bud Frederick

Date: 6-21-04



SSM Cardinal Glennon Children's Hospital

1/c
6/17/04

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

June 14, 2004

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: First Quarter 2004 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the First Quarter of 2004 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

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JUN 17 2004
DIVISION OF
ENVIRONMENTAL COMPLIANCE

THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

MSD 036558

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: April 6, 2004

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning Jan. 1, 2004 and ending March 31, 2004.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

May 12, 2004

Dodie Purcell
Director of Risk/Quality Management
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Purcell:

Under the terms and conditions of the above referenced permit, you are required to self-monitor your radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive report for first quarter was due by April 28, 2004.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

Although the District received your fourth quarter self-monitoring report on March 12, 2004, the first quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.A.1 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the first quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

Submit the first quarter 2004 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

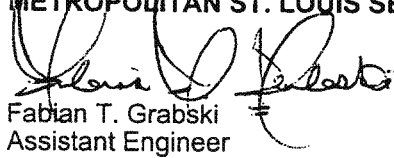
Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your first quarter radioactive discharge report and corrective action response by June 1, 2004.

If you have any questions, please contact me at 436-8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

11/16/64

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit-issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bruce Frederick

Title: Facilities Manager

Telephone: 572-5327

Signature: Bruce Frederick

Date: 4-5-04

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 31, 2004

Lab. No.: 2004MT0072

Invoice No.: 240157

SSM CARINAL GLENNONS CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63104-1095

TIO =

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 002 Waste Water Grab, 06:45 a.m. / 03-18-04

DATE ANALYZED : 03-23-04

RESULTS: ug/L OR PARTS PER BILLION (PPB)

METHOD: VOLATILE ORGANICS EPA 600 METHOD 624

ANALYTE	002	MDL
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloro-2-propanone	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0
1,1'-Oxybis-ethane	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,4-Dichloro-2-butene	ND	5.0
1-Chlorobutane	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Butanone	ND	10.0

Page 1 of 3

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APR 16 2004

DIVISION OF
ENVIRONMENTAL COMPLIANCE

MSD 036563

MIDWEST TESTING LABORATORIES

INCORPORATED

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ANALYTE	002	MDL
2-Chlorotoluene	ND	5.0
2-Hexanone	ND	5.0
2-Nitropropane	ND	5.0
2-Propenic acid, methyl ester	ND	5.0
2-Methoxy-2-Methylpropane	ND	5.0
4-Chlorotoluene	ND	5.0
4-Methyl-2-pentanone	ND	5.0
Acetone	ND	5.0
Acrolein	ND	100.0
Acrylonitrile	ND	5.0
Allyl chloride	ND	5.0
Benzene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	5.0
Chloroform (LP)	ND	5.0 ≤ .01
Chloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	5.0
Ethyl methacrylate	ND	5.0
Ethylbenzene	ND	5.0
Heptane	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachloroethane	ND	5.0
Hexane	ND	5.0
Iodomethane	ND	5.0
Isopropylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
Methacrylonitrile	ND	5.0
Methyl Methacrylate	ND	5.0
Methylacrylate	ND	5.0

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ENVIRONMENTAL COMPLIANCE

MSD 036564

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	002	MDL
Methylene chloride <i>KP</i>	ND	5.0 0.1
n-Butylbenzene	ND	5.0
n-prppylbenzene	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
o-Xylene	ND	5.0
p-isopropyltoluene	ND	5.0
Pentachloroethane	ND	5.0
Propionitrile	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Tetrahydrofuran	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
trans-1,4-Dichloro-2-butene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	5.0
Vinyl chloride	ND	5.0

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Manager

Page 3 of 3

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

MSD 036565

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 31, 2004
Lab No.: 2004MT0072
Invoice No.: 240157

SSM CARINAL GLENNONS CHILDREN'S HOSPITAL
1465 Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 002 Waste Water Grab, 06:45 a.m. / 03-18-04

DATE ANALYZED : 03-26-04

METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

SEMI - VOLATILE ORGANICS

ANALYTE	002	MDL
bis- (Chloromethyl) - ether	ND	0.010
Pyridine	ND	0.010
Aniline	ND	0.010
Benzyl alcohol	ND	0.010
Phenol (KP)	ND	0.010 ± .01
2-Chlorophenol	ND	0.010
bis- (2-Chloroethyl) ether	ND	0.010
N-nitrosodimethylamine	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	0.010
N-Nitroso-di-n-propylamine	ND	0.020
1,3-Dichlorobenzene	ND	0.010
1,4-Dichlorobenzene	ND	0.010
1,2-Dichlorobenzene	ND	0.010
o-Cresol	ND	0.010
m,p-Cresol	ND	0.010
Hexachloroethane	ND	0.010
Nitrobenzene	ND	0.010
2,4-Dimethylphenol	ND	0.010
4-Chloroaniline	ND	0.010
2-Nitrophenol	ND	0.010
2,4-Dichlorophenol	ND	0.010
Benzoic acid	ND	0.050
4-Chloro-3-methylphenol	ND	0.010
bis (2-Chloroethoxy) methane	ND	0.010
Isophorone	ND	0.010

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	002	MDL
1,2,4-Trichlorobenzene	ND	0.010
2-Methylnaphthalene	ND	0.010
Hexachlorocyclopentadiene	ND	0.010
Naphthalene	ND	0.010
Hexachlorobutadiene	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
2-Nitroaniline	ND	0.010
3-Nitroaniline	ND	0.010
4-Nitroaniline	ND	0.010
2,4- Dinitrophenol <i>LP</i>	ND	0.010 ≤ 0.1
4-Nitrophenol	ND	0.010
4,6-Dinitro-2-methylphenol	ND	0.010
2-Chloronaphthalene	ND	0.010
4-Chlorophenyl phenyl ether	ND	0.010
Dimethyl phthalate	ND	0.010
2,6-Dinitrotoluene	ND	0.010
Acenaphthylene	ND	0.010
Dibenzofuran	ND	0.010
Diethyl phthalate	ND	0.010
Acenaphthene	ND	0.010
Benzo(g,h,i)perylene	ND	0.010
Fluorene	ND	0.010
Azobenzene	ND	0.010
2,4-Dinitrotoluene	ND	0.010
Hexachlorobenzene	ND	0.010
Pentachlorophenol	ND	0.010
N-Nitrosodiphenylamine	ND	0.010
4-Bromophenyl phenyl ether	ND	0.010
Carbazole	ND	0.010
Di-n-butyl phthalate	ND	0.010
Phenanthrene	ND	0.010
Anthracene	ND	0.010
Fluoranthene	ND	0.010
Butyl benzyl phthalate	ND	0.010
bis (2-ethylhexyl) phthalate	ND	0.010
Pyrene	ND	0.010
Benzo(a)anthracene	ND	0.010
Chrysene	ND	0.010
3,3'-Dichlorobenzidine	ND	0.010
Di-n-octyl phthalate	ND	0.010
Benzidine	ND	0.010
Benzo(b)fluoranthene	ND	0.010
Benzo(k)fluoranthene	ND	0.010
Benzo(a)pyrene	ND	0.010

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	002	MDL
Dibenzo(a,h)anthracene	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Director

Page 3 of 3

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APR 6 2004

DIVISION OF
ENVIRONMENTAL COMPLIANCE

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

TTO = 40.01 mg/L

Date: March 04, 2004
Lab. No.: 2004MT0049
Invoice No.: 240141

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 07:00 a.m. / 02-18-04

DATE ANALYZED : 02/27/04

RESULTS: ug/L OR PARTS PER BILLION (PPB)

ORGANOCHLORINE PESTICIDE ANALYSIS SW-846 METHOD 8031

ANALYTE	001	MDL
Aldrin	ND	0.05
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC (Lindane)	ND	0.04
delta-BHC	ND	0.05
Chlordane	ND	0.14
4,4'-DDD	ND	0.05
4,4'-DDE	ND	0.05
4,4'-DDT	ND	0.05
Dieldrin	ND	0.05
Endosulfan I	ND	0.05
Endosulfan II	ND	0.05
Endosulfan Sulfate	ND	0.05
Endrin	ND	0.06
Endrin Aldehyde	ND	0.05
Heptachlor	ND	0.04
Heptachlor Epoxide	ND	0.20
Methoxychlor	ND	0.06
Toxaphene	ND	0.56
AROCHLOR-1016	ND	0.50
AROCHLOR-1221	ND	0.50
AROCHLOR-1232	ND	0.50
AROCHLOR-1242	ND	0.50
AROCHLOR-1248	ND	0.50
AROCHLOR-1254	ND	0.50
AROCHLOR-1260	ND	0.50

ND: Not detected / MDL: Method Detection Limit

RECEIVED

APR 06 2004

DIVISION OF
ENVIRONMENTAL COMPLIANCE

PUT IN BEAMS VIA
3/12/04 SMR.

FG
4/6/04

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 04, 2004
Lab No.: 2004MT0049
Invoice No.: 240141

SSM CARINAL GLENNONS CHILDREN'S HOSPITAL
1465 Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 07:00 a.m. / 02-18-04

DATE ANALYZED : 03-02-04

METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

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SEMI - VOLATILE ORGANICS

DIVISION OF
ENVIRONMENTAL COMPLIANCE

ANALYTE	001	MDL
bis- (Chloromethyl) - ether	ND	0.010
Pyridine	ND	0.010
Aniline	ND	0.010
Benzyl alcohol	ND	0.010
Phenol (LP)	ND	0.010 ≤ .01
2-Chlorophenol	ND	0.010
bis- (2-Chloroethyl) ether	ND	0.010
N-nitrosodimethylamine	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	0.010
N-Nitroso-di-n-propylamine	ND	0.020
1,3-Dichlorobenzene	ND	0.010
1,4-Dichlorobenzene	ND	0.010
1,2-Dichlorobenzene	ND	0.010
o-Cresol	ND	0.010
m,p-Cresol	ND	0.010
Hexachloroethane	ND	0.010
Nitrobenzene	ND	0.010
2,4-Dimethylphenol	ND	0.010
4-Chloroaniline	ND	0.010
2-Nitrophenol	ND	0.010
2,4-Dichlorophenol	ND	0.010
Benzoic acid	ND	0.050
4-Chloro-3-methylphenol	ND	0.010
bis (2-Chloroethoxy) methane	ND	0.010
Isophorone	ND	0.010

ANALYTE	001	MDL
1,2,4-Trichlorobenzene	ND	0.010
2-Methylnaphthalene	ND	0.010
Hexachlorocyclopentadiene	ND	0.010
Naphthalene	ND	0.010
Hexachlorobutadiene	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
2-Nitroaniline	ND	0.010
3-Nitroaniline	ND	0.010
4-Nitroaniline	ND	0.010
2,4-Dinitrophenol (KP)	ND	0.010 ≤ 0.01
4-Nitrophenol	ND	0.010
4,6-Dinitro-2-methylphenol	ND	0.010
2-Chloronaphthalene	ND	0.010
4-Chlorophenyl phenyl ether	ND	0.010
Dimethyl phthalate	ND	0.010
2,6-Dinitrotoluene	ND	0.010
Acenaphthylene	ND	0.010
Dibenzofuran	ND	0.010
Diethyl phthalate	ND	0.010
Acenaphthene	ND	0.010
Benzo(g,h,i)perylene	ND	0.010
Fluorene	ND	0.010
Azobenzene	ND	0.010
2,4-Dinitrotoluene	ND	0.010
Hexachlorobenzene	ND	0.010
Pentachlorophenol	ND	0.010
N-Nitrosodiphenylamine	ND	0.010
4-Bromophenyl phenyl ether	ND	0.010
Carbazole	ND	0.010
Di-n-butyl phthalate	ND	0.010
Phenanthrene	ND	0.010
Anthracene	ND	0.010
Fluoranthene	ND	0.010
Butyl benzyl phthalate	ND	0.010
bis (2-ethylhexyl) phthalate	ND	0.010
Pyrene	ND	0.010
Benzo(a)anthracene	ND	0.010
Chrysene	ND	0.010
3,3'-Dichlorobenzidine	ND	0.010
Di-n-octyl phthalate	ND	0.010
Benzidine	ND	0.010
Benzo(b)fluoranthene	ND	0.010
Benzo(k)fluoranthene	ND	0.010
Benzo(a)pyrene	ND	0.010

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

ANALYTE	001	MDL
Dibenzo(a,h)anthracene	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Director

RECEIVED
APR 06 2004
DIVISION OF
ENVIRONMENTAL COMPLIANCE

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 04, 2004

Lab. No.: 2004MT0049

Invoice No.: 240141

SSM CARINAL GLENNONS CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 07:00 a.m. / 02-18-04

DATE ANALYZED : 02-25-04

RESULTS: ug/L OR PARTS PER BILLION (PPB)

VOLATILE ORGANICS

EPA 600 METHOD 624

ANALYTE	001	MDL
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloro-2-propanone	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0
1,1'-Oxybis-ethane	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,4-Dichlorobenzene	ND	5.0
1,4-Dichloro-2-butene	ND	5.0
1-Chlorobutane	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Butanone	ND	10.0

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DIVISION OF
ENVIRONMENTAL COMPLIANCE

ANALYTE	001	MDL
2-Chlorotoluene	ND	5.0
2-Hexanone	ND	5.0
2-Nitropropane	ND	5.0
2-Propenic acid, methyl ester	ND	5.0
2-Methoxy-2-Methylpropane	ND	5.0
4-Chlorotoluene	ND	5.0
4-Methyl-2-pentanone	ND	5.0
Acetone	ND	5.0
Acrolein	ND	100.0
Acrylonitrile	ND	5.0
Allyl chloride	ND	5.0
Benzene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	5.0
Chloroform <i>KP</i>	ND	5.0 \leq .01
Chloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	5.0
Ethyl methacrylate	ND	5.0
Ethylbenzene	ND	5.0
Heptane	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachloroethane	ND	5.0
Hexane	ND	5.0
Iodomethane	ND	5.0
Isopropylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
Methacrylonitrile	ND	5.0
Methyl Methacrylate	ND	5.0
Methylacrylate	ND	5.0

Page 2 of 3

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APR 06 2004

DIVISION OF
ENVIRONMENTAL COMPLIANCE

ANALYTE	001	MDL
Methylene chloride (EP)	ND	5.0 ≤ .01
n-Butylbenzene	ND	5.0
n-prppylbenzene	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
o-Xylene	ND	5.0
p-isopropyltoluene	ND	5.0
Pentachloroethane	ND	5.0
Propionitrile	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Tetrahydrofuran	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
trans-1,4-Dichloro-2-butene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	5.0
Vinyl chloride	ND	5.0

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APR 06 2004
DIVISION OF
ENVIRONMENTAL COMPLIANCE

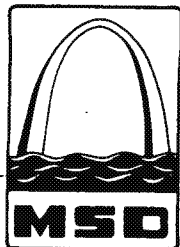
ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Manager



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

March 16, 2004

Bud Frederick
Facilities Manager

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Frederick:

We have reviewed the first quarter 2004 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

A review of previously submitted self-monitoring reports identified that TTO has not been monitored and reported at sampling point 001 since March 7, 2003. The permit requires that TTO be reported once per year for sampling point 001. The TTO is to include analyses for all "applicable toxic organics". The "applicable toxic organics" are those which are or may be present in your discharge. Generally these will be the toxic organics which were denoted as being suspected or known present on the permit application completed by SSM Cardinal Glennon Children's Hospital, plus any which may have been added since the date of the application. The "applicable toxic organic" compounds identified on the October 29, 1999 application by SSM Cardinal Glennon Children's Hospital are Phenol, Methylene Chloride, Chloroform, and 2,4-Dinitrophenol which, were denoted as being known present on your premise.

REQUIRED ACTION/RESPONSE:

Submit a report of corrective actions, which you have initiated, to ensure that the sampling, analytical, and reporting requirements will be met in future reporting quarters. Please submit your corrective action response by April 12, 2004. Additionally, we ask that you monitor sampling point 001 for TTO during second quarter 2004.

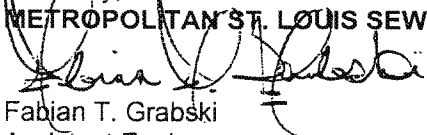
Please note that the TTO analysis need only include the compounds indicated as known present on the aforementioned October 29, 1999 permit application. However, if the aforementioned compounds have been removed from your premise, please provide supporting documentation to the District. Sampling and reporting for TTO at sampling point 001 will not be required if these compounds have been removed from your premise.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

If you have any questions, please contact me at 436-8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT



Fabjan T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

MSD 036576

FMT
✓ 2/20/04



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

January 8, 2004

COPY

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Fourth Quarter 2003 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the Fourth Quarter of 2003 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,



Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

RECEIVED

FEB 19 2004

THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

MSD 036577

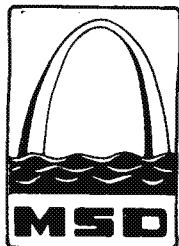
**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: Jan. 5, 2004**TO:** Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital**FROM:** Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office**SUBJECT:** Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning Oct. 1, 2003 and ending Dec. 31, 2003.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

RECEIVED**FEB 19 2004**



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

February 10, 2004

Rick Cunningham
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Cunningham:

Under the terms and conditions of the above referenced permit, you are required to self-monitor your radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive report for fourth quarter was due by January 28, 2004.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

Although the District received your fourth quarter self-monitoring report on November 17, 2003, the fourth quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.A.1 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the fourth quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

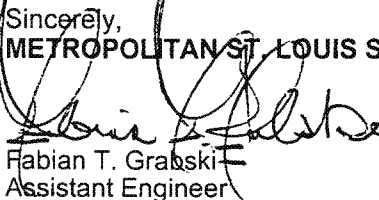
Submit the fourth quarter 2003 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your fourth quarter radioactive discharge report and corrective action response by February 23, 2004.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

December 3, 2003

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Third Quarter 2003 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the third Quarter of 2003 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

RECEIVED

DEC 05 2003

THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: Oct. 3, 2003

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning July 1, 2003 and ending Sept. 30, 2003.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

RECEIVED

DEC 05 2003

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART II: ANALYTICAL RESULTS OF SELF MONITORING

You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bud Friedrich

Title: Facilities manager

Telephone: 577-5327

Signature: Bud Friedrich

Date: 8/16/03

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

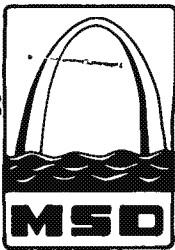
- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.
- B. **DISCHARGE MONITORING REPORT CERTIFICATION**

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bud Frederickt

Title: Facilities manager Telephone: 577-5327

Signature: Bud Frederickt Date: 11/19/03



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

November 5, 2003

Rick Cunningham
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Cunningham:

Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling point. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for third quarter was due by October 28, 2003.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The third quarter self-monitoring report has not been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling point. Since no report was submitted, you did not satisfy the third quarter's reporting requirements.

Please note that even if sampling and analytical requirements can not be met, the report should still be submitted. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

Submit the third quarter 2003 report, any available third quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your third quarter report and corrective action response by November 24, 2003.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

RECEIVED
NOV 17 2003



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

November 6, 2003

Rick Cunningham
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Cunningham:

Under the terms and conditions of the above referenced permit, you are required to self-monitor SSM Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive report for third quarter was due by October 28, 2003.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The third quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.A.1 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the third quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

Submit the third quarter 2003 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your third quarter radioactive discharge report and corrective action response by November 24, 2003.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file



**Metropolitan
St. Louis Sewer
District**

Division of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

November 5, 2003

Rick Cunningham
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Cunningham:

Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling point. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for third quarter was due by October 28, 2003.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The third quarter self-monitoring report has not been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling point. Since no report was submitted, you did not satisfy the third quarter's reporting requirements.

Please note that even if sampling and analytical requirements can not be met, the report should still be submitted. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

Submit the third quarter 2003 report, any available third quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your third quarter report and corrective action response by November 24, 2003.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

✓ $\frac{1}{243}$

PART I: IDENTIFYING INFORMATION

Company Name: SSM CARDINAL GLENNONE HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Blvd., St. Louis, MO 63103-1095

Monitoring Period: ☐ (JAN-MAR)

~~1~~(APR-JUNE)

☐ (JULY-SEPT)☐ (OCT-DEC)

Samples Collected By: MIDWEST TESTING LABORATORIES, INC

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

REC'D 7/17/03
Fg

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

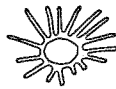
Print or type name of signing official: Bud Frederick

Title: Facilities Supervisor

Telephone: 577-5327

Signature: Bud Frederick

Date: 7-9-03



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

✓ AL
7/16/03

July 15, 2003

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Second Quarter 2003 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

Enclosed please find the second Quarter of 2003 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure

RECEIVED

JUL 16 2003

THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: July 14, 2003

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

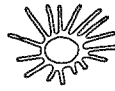
FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning April 1, 2003 and ending June 30, 2003.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

**RECEIVED
JUL 16 2003**



SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard ▪ St. Louis, MO 63104-1095
(314) 577 5600 phone ▪ www.cardinalglennon.com

April 25, 2003

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: First Quarter 2003 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

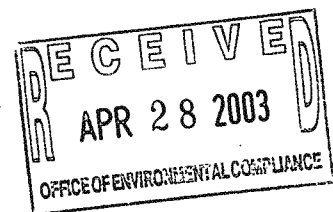
Enclosed please find the first Quarter of 2003 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure



THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: April 4, 2003

TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning Jan. 1, 2003 and ending March 31, 2002.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.





Metropolitan Saint Louis Sewer District
2350 Market Street
Saint Louis, Missouri 63103-2555

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Blvd.

MSD ACCOUNT #: W4112195400

St. Louis, MO 63104-1095

INVOICE

Invoice Number: PDP-2793

Invoice Date: 4/4/03

Explanation of Charges

Fee for Pretreatment Program Discharge Permit covering the period October 1, 2002 through September 30, 2003 issued in accordance with the Metropolitan St. Louis Sewer District Ordinance #8660 for the location at 1465 South Grand Blvd..

Basecharge @ \$150.00 per permit	150.00
Volume charge (computed on average daily ccf's) 80.210 ccfs @ \$.72 per ccf	57.75
Sample Point Charge 1 points @ \$100.00 per sample point.	100.00
Total Fee Due:	\$307.75

Remit to the above address. Mailing payment to any other address or facility of the Metropolitan St. Louis Sewer District could result in a delay in applying payment. If not paid by the due date a late charge of 1.5% will be added to the unpaid balance. For inquiries about this invoice please call (314) 768-6200 Ext.6494.

OEC

MIDWEST TESTING LABORATORIES INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

* ADDITION TO 1st QTR 2003 RPT
RECEIVED 4/10/03. CAN'T ENTER
INTO BCMS. COPIES KEPT BY FG.

Date: March 20, 2003
Lab. No.: 2003MT0066
Invoice No.: 230165

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL ^{FG} 4/16/03
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

TTO = 20.51 mg/L
FG

ATTENTION: Mr. Bud Frederick

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 7:00 a.m. / 03-07-03

DATE ANALYZED : 03-11-03

METHOD REF. : EPA 600 METHOD 624

RESULTS: ug/L OR PARTS PER BILLION (PPB)

VOLATILE ORGANICS

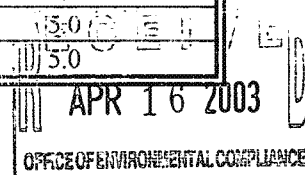
ANALYTE	001	MDL
Dichlorodifluoromethane	ND	5.0
Chloromethane	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1'-Oxybis-ethane	ND	5.0
Acrolein	ND	100
Acetone	ND	10.0
1,1-Dichloroethene	ND	5.0
Iodomethane	ND	5.0
Allyl Chloride	ND	5.0
Carbon Disulfide	ND	5.0
Methylene Chloride (KP)	ND	5.0
Acrylonitrile	ND	5.0
2-Methoxy-2-Methylpropane	ND	5.0
Hexane	ND	5.0
Trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	5.0
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	5.0
Propionitrile	ND	5.0
2,2-Dichloropropane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Methacrylonitrile	ND	5.0
2-Propenic acid, methyl ester	ND	5.0

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
Chloroform <i>JP</i>	ND	5.0
Bromochloromethane	ND	5.0
Tetrahydrofuran	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1-Chlorobutane	ND	5.0
Heptane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Methyl methacrylate	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
2-Nitropropane	ND	5.0
2-Chloroethyl vinyl ether	ND	5.0
1,1-Dichloro-2-Propanone	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Ethyl Methacrylate	ND	5.0
Trans 1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	5.0
1,3-Dichloropropane	ND	5.0
Dibromochloromethane	ND	5.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	5.0
Toluene	ND	2.0
Tetrachloroethene	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	20.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,4-Dichloro-2-butene	ND	5.0
n-Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0



MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
Pentachloroethane	ND	5.0
sec-Butylbenzene	ND	5.0
p-Isopropyltoluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
Hexachloroethane	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
Nitrobenzene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

ND: Not Detected / MDL: Method Detection Limit

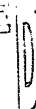
Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Manager

APR 16 2003



MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 20, 2003
Lab No.: 2003MT0066
Invoice: 230165

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederick

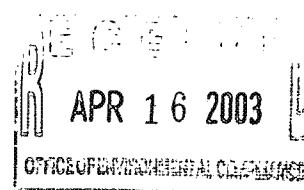
REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER GRAB SAMPLE
SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 7:00 a.m. / 03-07-03
DATE EXTRACTED : 03-13-03
DATE ANALYZED : 03-14-03
METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

SEMI - VOLATILE ORGANICS

ANALYTE	001	MDL
bis- (Chloromethyl) - ether	ND	0.010
Pyridine	ND	0.010
Aniline	ND	0.010
Benzyl alcohol	ND	0.010
Phenol (KP)	ND	0.010
2-Chlorophenol	ND	0.010
bis- (2-Chloroethyl) ether	ND	0.010
N-nitrosodimethylamine	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	0.010
N-Nitroso-di-n-propylamine	ND	0.020
1,3-Dichlorobenzene	ND	0.010
1,4-Dichlorobenzene	ND	0.010
1,2-Dichlorobenzene	ND	0.010
o-Cresol	ND	0.010
m,p-Cresol	ND	0.010
Hexachloroethane	ND	0.010
Nitrobenzene	ND	0.010
2,4-Dimethylphenol	ND	0.010
4-Chloroaniline	ND	0.010
2-Nitrophenol	ND	0.010
2,4-Dichlorophenol	ND	0.010
Benzoic acid	ND	0.050
4-Chloro-3-methylphenol	ND	0.010
bis (2-Chloroethoxy) methane	ND	0.010
Isophorone	ND	0.010



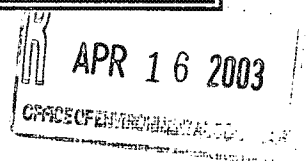
MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
1,2,4-Trichlorobenzene	ND	0.010
2-Methylnaphtalene	ND	0.010
Hexachlorocyclopentadiene	ND	0.010
Naphthalene	ND	0.010
Hexachlorobutadiene	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
2-Nitroaniline	ND	0.010
3-Nitroaniline	ND	0.010
4-Nitroaniline	ND	0.010
2,4- Dinitrophenol LP	ND	0.010
4-Nitrophenol	ND	0.010
4,6-Dinitro-2-methylphenol	ND	0.010
2-Chloronaphthalene	ND	0.010
4-Chlorophenyl phenyl ether	ND	0.010
Dimethyl phthalate	ND	0.010
2,6-Dinitrotoluene	ND	0.010
Acenaphthylene	ND	0.010
Dibenzofuran	ND	0.010
Diethyl phthalate	ND	0.010
Acenaphthene	ND	0.010
Benzo(g,h,i)perylene	ND	0.010
Fluorene	ND	0.010
Azobenzene	ND	0.010
2,4-Dinitrontoluene	ND	0.010
Hexachlorobenzene	ND	0.010
Pentachlorophenol	ND	0.010
N-Nitrosodiphenylamine	ND	0.010
4-Bromophenyl phenyl ether	ND	0.010
Carbazole	ND	0.010
Di-n-butyl phthalate	ND	0.010
Phenanthrene	ND	0.010
Anthracene	ND	0.010
Fluoranthene	ND	0.050
Butyl benzyl phthalate	ND	0.010
bis (2-ethylhexyl) phthalate	ND	0.010
Pyrene	ND	0.010
Benzo(a)anthracene	ND	0.010
Chrysene	ND	0.010
3,3'-Dichlorobenzidine	ND	0.010
Di-n-octyl phthalate	ND	0.010
Benidine	ND	0.010
Benzo(b)fluoranthene	ND	0.010
Benzo(k)fluoranthene	ND	0.010
Benzo(a)pyrene	ND	0.010

Page 2 of 3



MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
Dibenzo(a,h)anthracene	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Manager

RECEIVED
APR 16 2003
OFFICE

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: January 20, 2002
Lab. No.: 2003MT0066
Invoice No.: 230165

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Bud Frederickh

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER
SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 07:00 a.m. / 03-07-03
DATE ANALYZED : 03-18-02

RESULTS: ug/L OR PARTS PER BILLION (PPB)

ORGANOCHLORINE PESTICIDE ANALYSIS **SW-846 METHOD 8081**

ANALYTE	001	MDL
Aldrin	ND	0.06
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC (Lindane)	ND	0.04
delta-BHC	ND	0.05
Chlordane	ND	0.14
4,4'-DDD	ND	0.05
4,4'-DDE	ND	0.05
4,4'-DDT	ND	0.05
Dieldrin	ND	0.05
Endosulfan I	ND	0.05
Endosulfan II	ND	0.05
Endosulfan Sulfate	ND	0.05
Endrin	ND	0.06
Endrin Aldehyde	ND	0.05
Heptachlor	ND	0.04
Heptachlor Epoxide	ND	0.20
Methoxychlor	ND	0.06
Toxaphene	ND	0.56

ND: Not detected / MDL: Method Detection Limit

✓ H
4/10/13

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Monitoring Period: ☒ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

1	PR	20	2023
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1 * TTP WAS QTR 1ST QTR 2003. FG

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Bud Frederick

Title: Facilities & Supervisor Telephone: 577-5327

Signature: Bud Frederick Date: 4-9-03



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

February 20, 2003

John Hogenmiller
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 South Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 South Grand Boulevard

Dear Mr. Hogenmiller:

We have reviewed the fourth quarter 2002 self-monitoring report you recently submitted to the District under the terms of the above referenced permit and pursuant to the District's February 10, 2003 Notice of Violation to SSM Cardinal Glennon Children's Hospital. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

- 1) The reverse of the report, which should include any applicable special certifications and a signature to attest to the correctness of the data, was not submitted. In the absence of these items, the document submitted does not satisfy the reporting requirements of the aforementioned permit.
- 2) The report did not include a measured or estimated flow figure for sampling point 001. Pursuant to the aforementioned permit, the permittee is required to provide either a measured or estimated average daily flow figure for at least one operating day per quarter for each sampling point.

REQUIRED ACTION/RESPONSE:

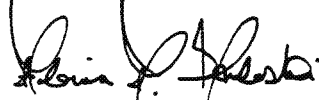
Submit a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters. Additionally, we ask that you resubmit the fourth quarter report being sure to include the aforementioned items.

Please submit your response on the above items by March 24, 2003.

If you have any questions, please contact me at 436-8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

✓ 2/19/2

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☒ (OCT-DEC)

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

FEB 18 2003

* - SIGNATURE / CERTIFICATION
FG

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: November 21, 2002

Lab. No.: 2002MT0443

Invoice No.: 20020450

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. Martin Hague

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001

Waste Water 07:00 a.m. to 03:00 p.m. / 11-14-02

Grab Sample 07:00 a.m. / 11-14-02

DATE ANALYZED : 11-14-02 to 11-21-02

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE		MDL	METHOD NUMBER
Oil & Grease	19	5	1664
BOD	167	10	405.1
COD	336	10	410.1
TSS	197	5	160.2
Temperature (Degrees C)	18.4	0.1	150.1
pH (Std Units)	8.95	0.02	120.1
Silver	0.06	0.01	272.1

MDL: Method Detection Limit

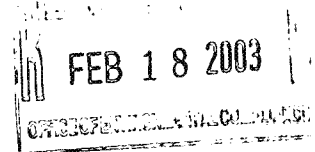
Identification of tested specimens provided by the client

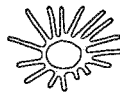
MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH

Laboratory Manager





SSM Cardinal Glennon Children's Hospital

1/13/03

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

January 2, 2003

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Fourth Quarter 2002 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

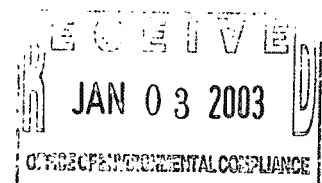
Enclosed please find the fourth Quarter of 2002 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University, at 577-8609 or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure



THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

MSD 036608

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: Jan. 2, 2003

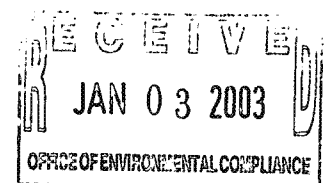
TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *14*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning October 1, 2002 and ending December 31, 2002.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.





SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

November 1, 2002

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Third Quarter 2002 Radioactive Discharge Report
SSM Cardinal Glennon Children's Hospital

Dear Mr. Grabski:

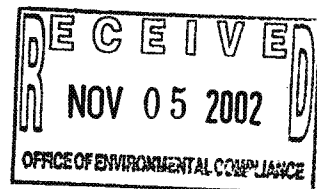
Enclosed please find the third Quarter of 2002 Radioactive Discharge Report as required. Please note that there were no discharges of radioactive material for any of the Cardinal Glennon laboratories for this time frame.

If you have any questions regarding this report, please contact Kevin Ferguson, Health Physicist for St. Louis University at 577-8609, or myself at 268-6481.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure



THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: Oct. 1, 2002

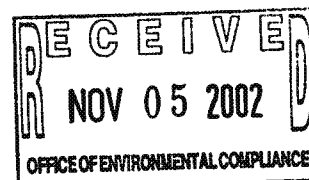
TO: Ms. Dodie Purcell
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

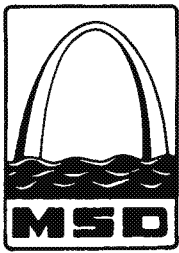
FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning July 1, 2002 and ending Sept. 30, 2002.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.





**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

September 18, 2002

John Hogenmiller
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Hogenmiller:

We have reviewed the third quarter 2002 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

- 1) The report did not include a measured or estimated flow figure for sampling point 001. Pursuant to the aforementioned permit, the permittee is required to provide either a measured or estimated average daily flow figure for at least one operating day per quarter for each sampling point.
- 2) The reverse of the report, which should include an applicable special certification and a signature to attest to the correctness of the data, was not submitted. In the absence of these items, the document submitted does not satisfy the reporting requirements of the aforementioned permit.

REQUIRED ACTION/RESPONSE:

Submit a report of corrective actions, which you have initiated to ensure that the reporting requirements will be met in future reporting quarters. Additionally, we ask that you resubmit the third quarter report to include the above missing items.

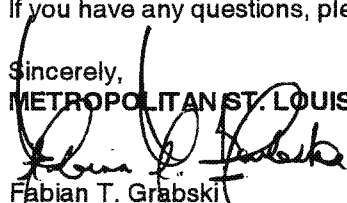
Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your response on the above item by October 21, 2002.

If you have any questions, please contact me at 436-8756.

Sincerely,

METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

✓ FG
9/8/2

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Premise Address: 1465 S. Grand Blvd., St. Louis, MO 63103-1095

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: MIDWEST TESTING LABORATORIES, INC.

Analyses Performed By: MIDWEST TESTING LABORATORIES, INC.

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

SEP 18 2002

* - REVERSE SIGN

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: September 04, 2002

Lab. No.: 2002MT0341

Invoice No.: 20020347

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. Martin Hague

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001

Waste Water 07:00 a.m. to 03:00 p.m. / 08-27-02

Grab Sample 07:00 a.m. / 08-27-02

DATE ANALYZED : 08-27-02 to 09-04-02

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE		MDL	METHOD NUMBER
Oil & Grease	26	5	1664
BOD	205	10	405.1
COD	565	10	410.1
TSS	84	5	160.2
Temperature (Degrees C)	17.1	0.1	150.1
pH (Std Units)	7.43	0.02	120.1
Silver	0.03	0.01	272.1

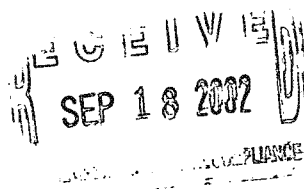
MDL: Method Detection Limit

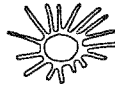
Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.



DINESH N. SHAH
Laboratory Manager





SSM Cardinal Glennon Children's Hospital

1465 S. Grand Boulevard • St. Louis, MO 63104-1095
(314) 577 5600 phone • www.cardinalglennon.com

August 15, 2002

Mr. Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Notice of Permit Violations
Discharge Permit No: 41121954-00
For Premises at: 1465 S. Grand Boulevard

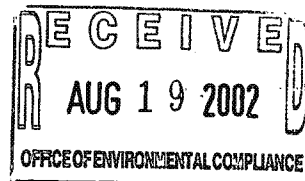
Dear Mr. Grabski:

Enclosed please find the second quarter 2002 Radioactive Discharge Report which you requested in your correspondence dated August 9, 2002. I apologize for the delay in your receipt of this report. Unfortunately, Mr. Hogenmiller is no longer with SSM Cardinal Glennon Children's Hospital and I was unaware that this report needed to be sent to your office. I have now established that quarterly reports will be forwarded to my office so that I can submit the reports to your office in a timely manner.

Sincerely,

Dorothy (Dodie) Purcell
Director of Risk/Quality Management

Enclosure



THROUGH OUR EXCEPTIONAL HEALTH CARE SERVICES, WE REVEAL THE HEALING PRESENCE OF GOD.

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: July 5, 2002

TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

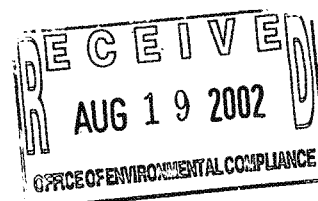
FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

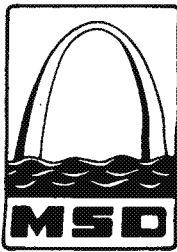
SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning April 1, 2002 and ending June 30, 2002.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

Post-it® Fax Note	7671	Date	7/5/02	# of pages	1
To	John Hogenmiller	From	Kevin Ferguson		
Co./Dept.		Co.	Radiation Safety		
Phone #		Phone #			
Fax #	577-5314	Fax #			





**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

August 9, 2002

John Hogenmiller
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Hogenmiller:

Under the terms and conditions of the above referenced permit, you are required to self-monitor SSM Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive discharge report for second quarter of 2002 was due by July 28, 2002.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The second quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.A.2 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the second quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

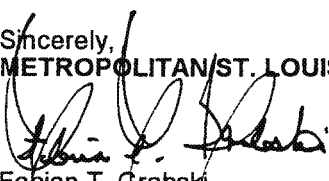
Submit the second quarter 2002 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your second quarter radioactive discharge report and corrective action response by August 26, 2002.

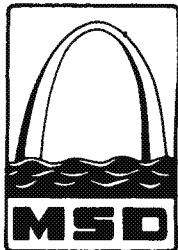
If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN/ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

May 17, 2002

John Hogenmiller
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Hogenmiller:

We have reviewed the second quarter 2002 self-monitoring report you recently submitted to the District under the terms of the above referenced permit. The following violations of permit limitations, terms or conditions were identified:

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

- 1) The report did not include a measured or estimated flow figure for sampling point 001. Pursuant to the aforementioned permit, the permittee is required to provide either a measured or estimated average daily flow figure for at least one operating day per quarter for each sampling point.
- 2) The reverse of the report, which should include an applicable special certification and a signature to attest to the correctness of the data, was not submitted. In the absence of these items, the document submitted does not satisfy the reporting requirements of the aforementioned permit.

REQUIRED ACTION/RESPONSE:

Submit a report of corrective actions, which you have initiated to ensure that the reporting requirements will be met in future reporting quarters. Additionally, we ask that you resubmit the second quarter report to include the above missing items.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your response on the above item by June 17, 2002.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT

Fabian T. Grabski
Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

T ✓ FC
5/17/00

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

RECEIVED
MAY 17 2002
OFFICE OF ENVIRONMENTAL COMPLIANCE

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: _____

Title: _____ Telephone: _____

Signature: _____ Date: _____



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

May 9, 2002

John Hogenmiller
Director of Safety & Security
SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104-1095

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Hogenmiller:

Under the terms and conditions of the above referenced permit, you are required to self-monitor SSM Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive discharge report for first quarter of 2002 was due by April 28, 2002.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The first quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.A.2 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the first quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

Submit the first quarter 2002 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your first quarter radioactive discharge report and corrective action response by June 3, 2002.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: Suspense file

cc: Douglas Mendoza
Permit file

SSM Cardinal Glennon

FC
9/12/2

TTD
FC
4/9/02

Fax Transmission

No. of pages incl. this one: 4

To: David Kapke

Fax number: 434-8753

From:

John Hogenmiller

Security/Parking Director

Date:

If you do not receive all pages, please contact: (314) 268-4117

Fax: (314) 577-5314

Message:

*****Fax Disclaimer*****

The documents accompanying this facsimile transmission may contain sensitive information. The information is intended only for the use of the individual(s) or entity name above. If you are not the intended recipient, you are notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this facsimile information is not permissible. If you have received the transmission in error, please immediately notify us at 314-577-5307 to arrange for the return of the original document. Thank you

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

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INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

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- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
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Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

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B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogenmiller

Title: Director Security

Telephone: (314) 268-4117

Signature: John Hogenmiller

Date: 4/3/02

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: April 2, 2002

TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning January 1, 2002 and ending March 31, 2002.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: January 28, 2002

Lab. No.: 2002MT0022

Invoice No.: 20020035

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1463 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE LD. : Sample Point Ref. Number: 001 Waste Water Grab, 8:00 a.m. / 01-17-02

DATE ANALYZED : 01-24-02

METHOD REF. : EPA 600 METHOD 624

RESULTS: ug/L OR PARTS PER BILLION (PPB)

VOLATILE ORGANICS

ANALYTE	001	MDL
Dichlorodifluoromethane	ND	5.0
Chloromethane	ND	5.0
Vinyl Chloride	ND	5.0
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
1,1'-Oxybis-ethane	ND	5.0
Acrolein	ND	100
Acetone	ND	10.0
1,1-Dichloroethene	ND	5.0
Iodomethane	ND	5.0
Allyl Chloride	ND	5.0
Carbon Disulfide	ND	5.0
Methylene Chloride <i>1-P</i>	ND	5.0
Acrylonitrile	ND	5.0
2-Methoxy-2-Methylpropane	ND	5.0
Hexane	ND	5.0
Trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	5.0
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	5.0
Propionitrile	ND	5.0
2,2-Dichloropropane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Methacrylonitrile	ND	5.0
2-Propenic acid, methyl ester	ND	5.0

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
Chloroform <i>CP</i>	ND	5.0
Bromochloromethane	ND	5.0
Tetrahydrofuran	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1-Chlorobutane	ND	5.0
Heptane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Methyl methacrylate	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
2-Nitropropane	ND	5.0
2-Chloroethyl vinyl ether	ND	5.0
1,1-Dichloro-2-Propanone	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Ethyl Methacrylate	ND	5.0
Trans 1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	5.0
1,3-Dichloropropane	ND	5.0
Dibromochloromethane	ND	5.0
Bromoform	ND	5.0
4-Methyl-2-Pentanone	ND	5.0
Toluene	ND	2.0
Tetrachloroethene	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	20.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,4-Dichloro-2-butene	ND	5.0
n-Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
Pentachloroethane	ND	5.0
sec-Butylbenzene	ND	5.0
p-Isopropyltoluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
Hexachloroethane	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
Nitrobenzene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.

DINESH N. SHAH
Laboratory Manager

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: January 28, 2002

Lab No.: 2002MT0022

Invoice No.: 20020035

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63104-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER GRAB SAMPLE

SAMPLE I.D. : Sample Point Ref. Number 001 Waste Water Grab, 8:00 a.m. / 01-17-02

DATE EXTRACTED : 01-18-02

DATE ANALYZED : 01-24-02

METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

SEMI - VOLATILE ORGANICS

ANALYTE	001	MDL
bis- (Chloromethyl) - ether	ND	0.010
Pyridine	ND	0.010
Aniline	ND	0.010
Benzyl alcohol	ND	0.010
Phenol	ND	0.010
2-Chlorophenol	ND	0.010
bis- (2-Chloroethyl) ether	ND	0.010
N-nitrosodimethylamine	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	0.010
N-Nitroso-di-n-propylamine	ND	0.020
1,3-Dichlorobenzene	ND	0.010
1,4-Dichlorobenzene	ND	0.010
1,2-Dichlorobenzene	ND	0.010
o-Cresol	ND	0.010
m,p-Cresol	ND	0.010
Hexachloroethane	ND	0.010
Nitrobenzene	ND	0.010
2,4-Dimethylphenol	ND	0.010
4-Chloroaniline	ND	0.010
2-Nitrophenol	ND	0.010
2,4-Dichlorophenol	ND	0.010
Benzoic acid	ND	0.050
4-Chloro-3-methylphenol	ND	0.010
bis (2-Chloroethoxy) methane	ND	0.010
Isophorone	ND	0.010

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 7700 Avenue St. Louis, MO 63118 001 (314) 773-3033 FAX (314) 773-3519

ANALYTE	001	MDL
1,2,4-Trichlorobenzene	ND	0.010
2-Methylnaphthalene	ND	0.010
Hexachlorocyclopentadiene	ND	0.010
Naphthalene	ND	0.010
Hexachlorobutadiene	ND	0.010
2,4,6-Trichlorophenol	ND	0.010
2,4,5-Trichlorophenol	ND	0.010
2-Nitroaniline	ND	0.010
3-Nitroaniline	ND	0.010
4-Nitroaniline	ND	0.010
2,4- Dinitrophenol (KP)	ND	0.010
4-Nitrophenol	ND	0.010
4,6-Dinitro-2-methylphenol	ND	0.010
2-Chloronaphthalene	ND	0.010
4-Chlorophenyl phenyl ether	ND	0.010
Dimethyl phthalate	ND	0.010
2,6-Dinitrotoluene	ND	0.010
Acenaphthylene	ND	0.010
Dibenzofuran	ND	0.010
Diethyl phthalate	ND	0.010
Acenaphthene	ND	0.010
Benzo(g,h,i)perylene	ND	0.010
Fluorene	ND	0.010
Azobenzene	ND	0.010
2,4-Dinitrotoluene	ND	0.010
Hexachlorobenzene	ND	0.010
Pentachlorophenol	ND	0.010
N-Nitrosodiphenylamine	ND	0.010
4-Bromophenyl phenyl ether	ND	0.010
Carbazole	ND	0.010
Di-n-butyl phthalate	ND	0.010
Phenanthrene	ND	0.010
Anthracene	ND	0.010
Fluoranthene	ND	0.050
Butyl benzyl phthalate	ND	0.010
bis (2-ethylhexyl) phthalate	ND	0.010
Pyrene	ND	0.010
Benzo(a)anthracene	ND	0.010
Chrysene	ND	0.010
3,3'-Dichlorobenzidine	ND	0.010
Di-n-octyl phthalate	ND	0.010
Benzidine	ND	0.010
Benzo(b)fluoranthene	ND	0.010
Benzo(k)fluoranthene	ND	0.010
Benzo(a)pyrene	ND	0.010

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	MDL
Dibenzo(a,h)anthracene	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.

DINESH N. SHAH
Laboratory Manager

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: January 28, 2002

Lab.NO.: 2002MT0022

Invoice No.: 20020035

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63104-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE LD. : Sample Point Ref. Number: 001 Waste Water Grab, 08:00 a.m. / 01-17-02

DATE ANALYZED : 01-21-02

RESULTS: ug/L OR PARTS PER BILLION (PPB)

ORGANOCHLORINE PESTICIDE ANALYSIS

SW-846 METHOD 8081

ANALYTE	001	MDL
Aldrin	ND	0.06
alpha-BHC	ND	0.05
beta-BHC	ND	0.05
gamma-BHC (Lindane)	0.08 \leq 0.1	0.04
delta-BHC	ND	0.05
Chlordane	ND	0.14
4,4'-DDD	ND	0.05
4,4'-DDE	ND	0.05
4,4'-DDT	ND	0.05
Dieldrin	0.08 \leq 0.1	0.05
Endosulfan I	ND	0.05
Endosulfan II	ND	0.05
Endosulfan Sulfate	ND	0.05
Endrin	ND	0.06
Endrin Aldehyde	ND	0.05
Heptachlor	ND	0.04
Heptachlor Epoxide	ND	0.20
Methoxychlor	ND	0.06
Toxaphene	ND	0.56

ND: Not detected / MDL: Method Detection Limit

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

Company Name: SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Boulevard, St. Louis, Missouri 63103-1095

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☐ (JULY-SEPT) ☒ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: ~~Midwest Testing Laboratories, Incorporated~~

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

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☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogenmiller

Title: Director of Security

Telephone: (314) 248-4117

Signature: [Signature]

Date: _____

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: January 4, 2002

TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning October 1, 2001 and ending December 31, 2001.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: November 12, 2001

Lab. No.: 2001MT0451

Invoice No.: 20010456

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63103-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001

Waste Water 7:00 a.m. to 3:00 p.m. / 11-07-01

Grab Sample 7:00 a.m. / 11-07-01

DATE ANALYZED : 11-07-01 to 11-12-01

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE		MDL	METHOD NUMBER
Oil & Grease	12	5	1664
BOD	286	10	405.1
COD	564	10	410.1
TSS	226	5	160.2
Temperature (Degrees C)	19.3	0.1	150.1
pH (Std Units)	8.39	0.02	120.1
Silver	0.05	0.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.

*Victor V. Gorostiza*VICTOR V. GOROSTIZA
Laboratory Director

Fax Transmission

No. of pages incl. this one: 4

To: David Kupke
Fax number: 436-8753

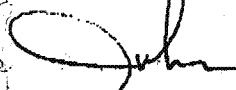
From: John Hogenmiller
Security/Parking Director

Date: 12/21/01

If you do not receive all pages, please contact: (314) 268-4117
Fax: (314) 577-5314

Message: I've enclosed the complete report again. Also,
Jack Mitchell is trying to get the number you are
requesting.

Thank you.



*****Fax Disclaimer*****

The documents accompanying this facsimile transmission may contain sensitive information. The information is intended only for the use of the individual(s) or entity name above. If you are not the intended recipient, you are notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this facsimile information is not permissible. If you have received the transmission in error, please immediately notify us at 314-577-5307 to arrange for the return of the original document. Thank you

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: September 4, 2001

Lab. No.: 2001MT0352

Invoice No.: 20010357

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number 001

Waste Water 7:30 a.m. to 3:30 p.m. / 08-29-01

Grab Sample 9:20 a.m. / 08-29-01

DATE ANALYZED : 08-29-01 to 09-04-01

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE	001	MDL	METHOD NUMBER
Oil & Grease	31	5	1664
BOD	248	10	405.1
COD	603	10	410.1
TSS	123	5	160.2
Temperature (Degrees C)	24	0.1	150.1
pH (Std Units)	7.66	0.02	120.1
Silver	0.08	0.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.

Victor V. Gorostiza
VICTOR V. GOROSTIZA
Laboratory Director

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Boulevard, St. Louis MO 63104-1095

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☒ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: Midwest Testing Laboratories, Incorporated

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogenmiller

Title: Director, Security

Telephone: (314) 268-4117

Signature: John Hogenmiller

Date: _____

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

SEE RPT DTD 12/17/4.
FG

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Boulevard, St. Louis MO 63104-1095

Monitoring Period: ☐ (JAN-MAR)

☐ (APR-JUNE)

☐(JULY-SEPT)

☐ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: Midwest Testing Laboratories, Incorporated

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogenmiller

Title: Director Security Telephone: (314) 268-4117

Signature: John Hogenmiller Date: _____

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: September 4, 2001

Lab. No.: 2001MT0352

Invoice No.: 20010357

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001
Waste Water 7:30 a.m. to 3:30 p.m. / 08-29-01
Grab Sample 9:20 a.m. / 08-29-01

DATE ANALYZED : 08-29-01 to 09-04-01

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE	001	MDL	METHOD NUMBER
Oil & Grease	31	5	1664
BOD	248	10	405.1
COD	603	10	410.1
TSS	128	5	160.2
Temperature (Degrees C)	24	0.1	150.1
pH (Std Units)	7.66	0.02	120.1
Silver	0.08	0.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.

Victor V. Gorostiza
VICTOR V. GOROSTIZA
Laboratory Director



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

November 14, 2001

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

The Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling point. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for third quarter 2001 was due by October 28, 2001.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

Neither the third quarter self-monitoring report nor the third quarter radioactive discharge report have been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling point and permit special condition II.B.3. Since the reports were not submitted, you did not satisfy the third quarter's reporting requirements.

Please note that even if sampling and analytical requirements can not be met, the report should still be submitted. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

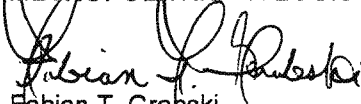
Submit the third quarter 2001 reports with any applicable certifications completed, any available third quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your third quarter reports and corrective action response by November 26, 2001.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: suspense file

cc: Douglas Mendoza
Permit file

✓ FG 9/23/02

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

✓ FG 10/10/01

DATE: October 2, 2001

TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *✓*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning July 1, 2001 and ending September 30, 2001.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

RECEIVED

DEC 17 2001

DEPT. of ENVIRONMENTAL
COMPLIANCE

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 41121954-00

Permit No: 41121954-00
Premise Address: 1465 S. Grand Boulevard, St. Louis MO 63104-1095

Premise Address: 1465 S. WYANDOTT BLVD., CHICAGO, ILL. 60605

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☒ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: Midwest Testing Laboratories, Incorporated

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: September 4, 2001

Lab. No.: 2001MT0352

Invoice No.: 20010357

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. John Hogenmiller

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001

Waste Water 7:30 a.m. to 3:30 p.m. / 08-29-01

Grab Sample 9:20 a.m. / 08-29-01

DATE ANALYZED : 08-29-01 to 09-04-01

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE	001	MDL	METHOD NUMBER
Oil & Grease	31	5	1664
BOD	248	10	405.1
COD	603	10	410.1
TSS	128	5	160.2
Temperature (Degrees C)	24	0.1	150.1
pH (Std Units)	7.66	0.02	120.1
Silver	0.08	0.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.

Victor V. Gorostiza

VICTOR V. GOROSTIZA

Laboratory Director



SSM Cardinal Glennon Children's Hospital

Fax Transmission

No. of pages incl. this one: 2

To: Mr. Florian Grabst;
Fax number: 436-8753

From: John Hogenmiller
Security/Parking Director

Date: 8/13/01

If you do not receive all pages, please contact: (314) 268-4117
Fax: (314) 577-5314

Message: Mr. Grabst:

My records indicate that I mailed this report 7/10/01. Sorry for any problems this may have caused.

Thank you.
John Hogenmiller

*****Fax Disclaimer*****

The documents accompanying this facsimile transmission may contain sensitive information. The information is intended only for the use of the individual(s) or entity name above. If you are not the intended recipient, you are notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this facsimile information is not permissible. If you have received the transmission in error, please immediately notify us at 314-577-5307 to arrange for the return of the original document. Thank you

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: July 3, 2001**TO:** Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital**FROM:** Kevin Ferguson *77*
Health Physicist
Radiation Safety Office**SUBJECT:** Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning April 1, 2001 and ending June 30, 2001.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

August 10, 2001

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Bouvard

Dear Mr. Julius:

The Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling points. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for second quarter 2001 was due by July 28, 2001.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

Neither the second quarter self-monitoring report nor the second quarter radioactive discharge report have been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling points and permit special condition II.B.3. Since the reports were not submitted, you did not satisfy the second quarter's reporting requirements.

The reporting requirements of your permit also includes completing a certain certification for each quarter. Even if sampling and analytical requirements can not be met, the report should still be submitted with the applicable certification completed. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

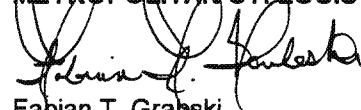
Submit the second quarter 2001 reports with the applicable certifications completed, any available second quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your second quarter reports and corrective action response by September 4, 2001.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

pc: suspense file

cc: Douglas Mendoza
Permit file



SSM Cardinal Glennon Children's Hospital

Handwritten: 8/28/01

Fax Transmission

No. of pages incl. this one: *4*

To: *David Kupke*

Fax number: *436-8753*

From: John Hogenmiller
Security/Parking Director

Date: *8/28/01*

If you do not receive all pages, please contact: (314) 268-4117
Fax: (314) 577-5314

Message: *David:*

Thanks for your help. As requested, find our testing.

John Hogenmiller

*****Fax Disclaimer*****

The documents accompanying this facsimile transmission may contain sensitive information. The information is intended only for the use of the individual(s) or entity name above. If you are not the intended recipient, you are notified that any disclosure, copying, distribution or the taking of any action in reliance on the contents of this facsimile information is not permissible. If you have received the transmission in error, please immediately notify us at 314-577-5307 to arrange for the return of the original document. Thank you

**METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER SELF MONITORING REPORT**

PLEASE READ THE INSTRUCTIONS BEFORE COMPLETING THIS REPORT

PART I: IDENTIFYING INFORMATION

Company Name: SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 S. Grand Boulevard, St. Louis, MO 63104-1095

Monitoring Period: ☐ (JAN-MAR) ☒ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: Midwest Testing Laboratories, Incorporated

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

You must complete and sign the certification statements on the reverse side.

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) _____.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogemiller

Title: Director Safety and Security

Telephone: (314) 248-4117

Signature: John Hogemiller

Date: _____

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: July 3, 2001

TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson ~~77~~
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning April 1, 2001 and ending June 30, 2001.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.



SSM Cardinal Glennon Children's Hospital

Fax Transmission

No. of pages incl. this one: 2

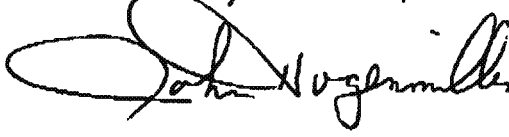
To: Fabian Grabski
Fax number: 436-8753

From: John Hogenmiller
Security/Parking Director

Date: 5/21/01

If you do not receive all pages, please contact: (314) 268-4117
Fax: (314) 577-5314

Message:

As you requested. Thank you for your assistance.


*****Fax Disclaimer*****

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**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: April 5, 2001

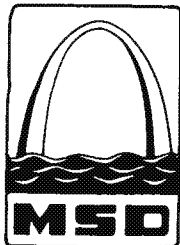
TO: Mr. John Hogenmiller
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning January 1, 2001 and ending March 31, 2001.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.



**Metropolitan
St. Louis Sewer
District**

Office of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

May 14, 2001

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

Under the terms and conditions of the above referenced permit, you are required to self-monitor Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive discharge report for first quarter of 2001 was due by April 28, 2001.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The first quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.B.2 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the first quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

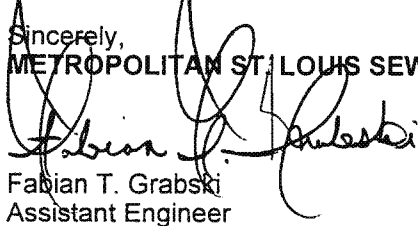
Submit the first quarter 2001 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your first quarter radioactive discharge report and corrective action response by June 18, 2001.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

bv
pc: suspense file

~~TOP~~
~~5/3/01~~
~~12min~~

✓ FC 9/17/2

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MAY - 2 2001

Environmental Compliance

Analyses Performed By: Midwest Testing Laboratories, Incorporated

003

1

MSD 036658

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

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PART IV: GENERAL CERTIFICATION STATEMENTS

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- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: John Hogenmiller

Title: Director, Safety and Security

Telephone: (314) 268-4117

Signature: John Hogenmiller

Date: 4/30/01

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

RECEIVED

MAY - 2 2001

Date: March 6, 2001
Lab. No.: 2001MT0064
Invoice No.: 20010079

Environmental Compliance

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001
Waste Water 7:30 a.m. / 02-16-01 to 3:30 p.m. / 02-16-01
Grab Sample 7:30 a.m. / 02-16-01

Sample Point Ref. Number: 002
Waste Water 6:45 a.m. / 02-16-01 to 2:45 p.m. / 02-16-01
Grab Sample 6:45 a.m. / 02-16-01

DATE ANALYZED : 02-16-01 to 02-22-01

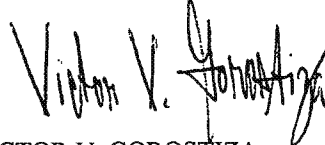
RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE	001	002	MDL	METHOD NUMBER
Oil & Grease	10	12	5	1664
BOD	548	107	10	405.1
COD	1,042	124	10	410.1
TSS	295	252	5	160.2
Temperature (Degrees C)	21.9	13.0	0.1	170.1
pH (Std Units)	8.13	8.64	0.02	150.1
Silver	0.05	0.01	0.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.



VICTOR V. GOROSTIZA
Laboratory Director

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 6, 2001

Lab. No.: 2001MT0064

Invoice No.: 20010079

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL

1465 S. Grand Boulevard

St. Louis, Missouri 63104-1095

REF 0
MAY - 2 2001

ATTENTION: Mr. Kevin Julius

Environmental Compliance

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 7:30 a.m. / 02-16-01


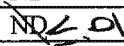
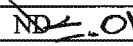
Sample Point Ref. Number: 002 Waste Water Grab, 6:45 a.m. / 02-16-01

DATE ANALYZED : 02-22-01

METHOD REF. : EPA 600 METHOD 624

RESULTS: ug/L OR PARTS PER BILLION (PPB)

VOLATILE ORGANICS

ANALYTE	001	002	MDL
Dichlorodifluoromethane	ND	ND	5.0
Chloromethane	ND	ND	5.0
Vinyl Chloride	ND	ND	5.0
Bromomethane	ND	ND	5.0
Chloroethane	ND	ND	5.0
Trichlorofluoromethane	ND	ND	5.0
1,1'-Oxybis-ethane	ND	ND	5.0
Acrolein	ND	ND	100
Acetone	ND	ND	10.0
1,1-Dichloroethene	ND	ND	5.0
Iodomethane	ND	ND	5.0
Allyl Chloride	ND	ND	5.0
Carbon Disulfide	ND	ND	5.0
Methylene Chloride 	ND 	ND 	5.0
Acrylonitrile	ND	ND	5.0
2-Methoxy-2-Methylpropane	ND	ND	5.0
Hexane	ND	ND	5.0
Trans-1,2-Dichloroethene	ND	ND	5.0
Vinyl Acetate	ND	ND	5.0
1,1-Dichloroethane	ND	ND	5.0
2-Butanone	ND	ND	5.0
Propionitrile	ND	ND	5.0
2,2-Dichloropropane	ND	ND	5.0
cis-1,2-Dichloroethene	ND	ND	5.0
Methacrylonitrile	ND	ND	5.0
2-Propenic acid, methyl ester	ND	ND	5.0

MIDWEST TESTING LABORATORIES

INCORPORATED

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MAY - 2 2001

Environmental Compliance

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ANALYTE	001	002	MDL
Chloroform (RP)	ND 4.0	ND 5.0	5.0
Bromochloromethane	ND	ND	5.0
Tetrahydrofuran	ND	ND	5.0
1,1,1-Trichloroethane	ND	ND	5.0
1-Chlorobutane	ND	ND	5.0
Heptane	ND	ND	5.0
1,1-Dichloropropene	ND	ND	5.0
Carbon Tetrachloride	ND	ND	5.0
1,2-Dichloroethane	ND	ND	5.0
Benzene	ND	ND	5.0
Trichloroethene	ND	ND	5.0
1,2-Dichloropropane	ND	ND	5.0
Methyl methacrylate	ND	ND	5.0
Bromodichloromethane	ND	ND	5.0
Dibromomethane	ND	ND	5.0
2-Nitropropane	ND	ND	5.0
2-Chloroethyl vinyl ether	ND	ND	5.0
1,1-Dichloro-2-Propanone	ND	ND	5.0
cis-1,3-Dichloropropene	ND	ND	5.0
Ethyl Methacrylate	ND	ND	5.0
Trans 1,3-Dichloropropene	ND	ND	5.0
1,1,2-Trichloroethane	ND	ND	5.0
2-Hexanone	ND	ND	5.0
1,3-Dichloropropane	ND	ND	5.0
Dibromochloromethane	ND	ND	5.0
Bromoform	ND	ND	5.0
4-Methyl-2-Pentanone	ND	ND	5.0
Toluene	ND	ND	2.0
Tetrachloroethene	ND	ND	5.0
1,2-Dibromoethane	ND	ND	5.0
Chlorobenzene	ND	ND	5.0
1,1,1,2-Tetrachloroethane	ND	ND	5.0
Ethylbenzene	ND	ND	20.0
m,p-Xylenes	29.5	ND	5.0
o-Xylene	ND	ND	5.0
Styrene	ND	ND	5.0
Isopropylbenzene	ND	ND	5.0
1,1,2,2-Tetrachloroethane	ND	ND	5.0
1,2,3-Trichloropropane	ND	ND	5.0
1,4-Dichloro-2-butene	ND	ND	5.0
n-Propylbenzene	ND	ND	5.0
Bromobenzene	ND	ND	5.0
1,3,5-Trimethylbenzene	ND	ND	5.0
2-Chlorotoluene	ND	ND	5.0
4-Chlorotoluene	ND	ND	5.0

MIDWEST TESTING LABORATORIES

INCORPORATED

RECEIVED
JAN - 2 2001
Environmental Compliance

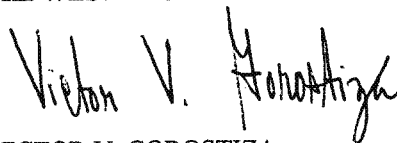
2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
tert-Butylbenzene	ND	ND	5.0
1,2,4-Trimethylbenzene	ND	ND	5.0
Pentachloroethane	ND	ND	5.0
sec-Butylbenzene	ND	ND	5.0
p-Isopropyltoluene	ND	ND	5.0
1,3-Dichlorobenzene	ND	ND	5.0
1,4-Dichlorobenzene	ND	ND	5.0
n-Butylbenzene	ND	ND	5.0
1,2-Dichlorobenzene	ND	ND	5.0
Hexachloroethane	ND	ND	5.0
1,2-Dibromo-3-chloropropane	ND	ND	5.0
Nitrobenzene	ND	ND	5.0
1,2,4-Trichlorobenzene	ND	ND	5.0
Hexachlorobutadiene	ND	ND	5.0
Naphthalene	ND	ND	5.0
1,2,3-Trichlorobenzene	ND	ND	5.0

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



VICTOR V. GOROSTIZA
Laboratory Director

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 6, 2001
Lab No.: 2001MT0064
Invoice No.: 20010079

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

RECEIVED

MAY - 2 2001

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

Environmental Compliance

SAMPLE MATRIX : WASTE WATER

SAMPLE ID. : Sample Point Ref. Number: 001 Waste Water Grab, 7:30 a.m. / 02-16-01
Sample Point Ref. Number: 002 Waste Water Grab, 6:45 a.m. / 02-16-01

DATE EXTRACTED : 02-23-01

DATE ANALYZED : 02-27-01

METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

SEMI - VOLATILE ORGANICS

ANALYTE	001	002	MDL
bis- (Chloromethyl) - ether	ND	ND	0.010
Pyridine	ND	ND	0.010
Aniline	ND	ND	0.010
Benzyl alcohol	ND	ND	0.010
Phenol	ND ≤ 0.1	ND ≤ 0.1	0.010
2-Chlorophenol	ND	ND	0.010
bis- (2-Chloroethyl) ether	ND	ND	0.010
N-nitrosodimethylamine	ND	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	ND	0.010
N-Nitroso-di-n-propylamine	ND	ND	0.020
1,3-Dichlorobenzene	ND	ND	0.010
1,4-Dichlorobenzene	ND	ND	0.010
1,2-Dichlorobenzene	ND	ND	0.010
o-Cresol	ND	ND	0.010
m,p-Cresol	0.010	ND	0.010
Hexachloroethane	ND	ND	0.010
Nitrobenzene	ND	ND	0.010
2,4-Dimethylphenol	ND	ND	0.010
4-Chloroaniline	ND	ND	0.010
2-Nitrophenol	ND	ND	0.010
2,4-Dichlorophenol	ND	ND	0.010
Benzoic acid	ND	ND	0.050
4-Chloro-3-methylphenol	ND	ND	0.010
bis (2-Chloroethoxy) methane	ND	ND	0.010
Isophorone	ND	ND	0.010

MIDWEST TESTING LABORATORIES

MAY - 2 2001

INCORPORATED

Environmental Compliance

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
1,2,4-Trichlorobenzene	ND	ND	0.010
2-Methylnaphthalene	ND	ND	0.010
Hexachlorocyclopentadiene	ND	ND	0.010
Naphthalene	ND	ND	0.010
Hexachlorobutadiene	ND	ND	0.010
2,4,6-Trichlorophenol	ND	ND	0.010
2,4,5-Trichlorophenol	ND	ND	0.010
2-Nitroaniline	ND	ND	0.010
3-Nitroaniline	ND	ND	0.010
4-Nitroaniline	ND	ND	0.010
2,4-Dinitrophenol KP	ND 4.01	ND 4.0	0.010
4-Nitrophenol	ND	ND	0.010
4,6-Dinitro-2-methylphenol	ND	ND	0.010
2-Chloronaphthalene	ND	ND	0.010
4-Chlorophenyl phenyl ether	ND	ND	0.010
Dimethyl phthalate	ND	ND	0.010
2,6-Dinitrotoluene	ND	ND	0.010
Acenaphthylene	ND	ND	0.010
Dibenzofuran	ND	ND	0.010
Diethyl phthalate	ND	ND	0.010
Acenaphthene	ND	ND	0.010
Benzo(g,h,i)perylene	ND	ND	0.010
Fluorene	ND	ND	0.010
Azobenzene	ND	ND	0.010
2,4-Dinitrotoluene	ND	ND	0.010
Hexachlorobenzene	ND	ND	0.010
Pentachlorophenol	ND	ND	0.010
N-Nitrosodiphenylamine	ND	ND	0.010
4-Bromophenyl phenyl ether	ND	ND	0.010
Carbazole	ND	ND	0.010
Di-n-butyl phthalate KA	0.064	ND	0.010
Phenanthrene	ND	ND	0.010
Anthracene	ND	ND	0.010
Fluoranthene	ND	ND	0.050
Butyl benzyl phthalate	ND	ND	0.010
bis (2-ethylhexyl) phthalate KA	0.042	ND	0.010
Pyrene	ND	ND	0.010
Benzo(a)anthracene	ND	ND	0.010
Chrysene	ND	ND	0.010
3,3'-Dichlorobenzidine	ND	ND	0.010
Di-n-octyl phthalate	ND	ND	0.010
Benzidine	ND	ND	0.010
Benzo(b)fluoranthene	ND	ND	0.010
Benzo(k)fluoranthene	ND	ND	0.010
Benzo(a)pyrene	ND	ND	0.010

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

RECEIVED

MAY - 2 2001

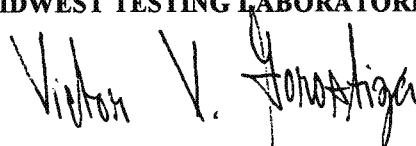
Environmental samples

ANALYTE	001	002	MDL
Dibenzo(a,h)anthracene	ND	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



VICTOR V. GOROSTIZA
Laboratory Director

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 6, 2001

Lab. No.: 2001MT0064

Invoice No.: 20010079

RF

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

MAY - 2 2001

Environmental Compliance

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE I.D. : Sample Point Ref. Number: 001 Waste Water Grab, 7:30 a.m. / 02-16-01

Sample Point Ref. Number: 002 Waste Water Grab, 6:45 a.m. / 02-16-01

DATE EXTRACTED : 02-27-01

DATE ANALYZED : 03-01-01

RESULTS: ug/L OR PARTS PER BILLION (PPB)

ORGANOCHLORINE PESTICIDE ANALYSIS SW-846 METHOD 8081

ANALYTE	001	002	MDL
Aldrin	ND	ND	0.016
alpha-BHC	ND	ND	0.006
beta-BHC	ND	ND	0.016
gamma-BHC (Lindane)	ND	ND	0.006
delta-BHC	ND	ND	0.021
Chlordane	ND	ND	0.015
4,4'-DDD	ND	ND	0.016
4,4'-DDE	ND	ND	0.009
4,4'-DDT	ND	ND	0.016
Dieldrin	ND	ND	0.006
Endosulfan I	ND	ND	0.016
Endosulfan II	ND	ND	0.008
Endosulfan Sulfate	ND	ND	0.080
Endrin	ND	ND	0.016
Endrin Aldehyde	ND	ND	0.080
Heptachlor	ND	ND	0.021
Heptachlor Epoxide	ND	ND	0.080
Methoxychlor	ND	ND	0.106
Toxaphene	ND	ND	0.254

ND: Not detected / MDL: Method Detection Limit

11/01/19

PART I: IDENTIFYING INFORMATION

PART II: ANALYTICAL RESULTS OF SELF MONITORING

* NO FLOW FOR 003
F/g

RECEIVED

JAN 9 2001

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FL 110 b1

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
☒ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 001.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. Julius

Title: Director, Security/Safety Telephone: 317 268-4117

Signature: Kevin R. Julius Date: 01-02-01

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: December 13, 2000

Lab. No.: 2000MT0578

Invoice No.: 2000590

P.O. No.: 1407

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL

1465 S. Grand Blvd.

St. Louis, Missouri 63104-1095

ATTENTION: Mr. Kevin R. Julius

REPORT OF TESTS

SAMPLE MATRIX: WATER

SAMPLE LD. : WASTE WATER-COMPOSITE AND GRAB

SAMPLE DATE : 12-07-00 / 8:10 A.M. to 4:10 P.M.

DATE ANALYZED: 12-07-00 to 12-13-00

RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE		MDL	METHOD NUMBER
Temperature (Degrees C)	13.4	0.1	170.1
pH (Std Units)	8.47	0.02	150.1
BOD	135	10	405.1
COD	216	10	410.1
TSS	172	5	160.2
Silver	0.07	0.01	272.1
Oil & Grease	20	5	1664

ND: Not Detected / MDL: MethodDetectionLimit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.

Victor V. Gorostiza

VICTOR V. GOROSTIZA
Laboratory Director

RECEIVED

JAN 9 2001

Environmental Compliance

CARDINAL GLENNON CHILDREN'S HOSPITAL

RIA INVENTORIES

JAN 9 2001

ASSAY LOT #	UC 1	DATE REC'D	DATE DISPOSED
AUSAB	15	1-3-00	1-14-00
AUSRIA (2)	30	1-3-00	1-14-00
BH TROLY	10	1-4-00	2-19-00
HGH	5	1-4-00	2-19-00
AUSRIA	15	1-7-00	2-29-00
Conat	15	1-7-00	2-29-00
Ausab	15	1-7-00	2-29-00
Ausab	15	1-26-00	3-15-00
HGH	5	1-31-00	3-15-00
T3	7	2-11-00	3-31-00
Ausab	15	2-21-00	3-31-00
Ausab	15	3-20-00	3-19-00 4-19-00
HGH	5	4-4-00	5-28-00
T3	7	4-6-00	5-28-00
HGH	5	5-4-00	6-12-00
Ausab	15	5-18-00	6-12-00
HGH	5	6-9-00	8-13-00
T3U	7	recd 6-2-00 exp	7-25-00
AUSAB	15	rec 6-13-00 exp 6/30/00	6-30-00
AUSAB	15	6/14/00	6-19-00
AUSAB	15	6/20/00	7-23-00
HGH	5	6/14/00	7-10-00
HGH	5	7-10-00	7-31-00
T3U	7	7-28-00	9-12-00
AUSAB	15	7/29/00	9-7-00
HGH	5	8/11/00	8-28-00
HGH	5	8/15/00	8-28-00
T3U	7	9-7-00 exp 11-14	
HGH	5	9/2/00	9-30-00
HGH	5	10/4/00	
AUSAB	15	9/5/00	9-30-00
AUSAB	15	10/2/00	
HGH	5	10-18-00	9-30-00
HGH	5	10-18-00	9-30-00
AUSAB	15	10-18-00	11-13-00
AUSAB	15	11-15-00	12-30-00

** TOTAL PAGE.002 **

MSD 036672

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: January 2, 2001

TO: Mr. Kevin Julius
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning October 1, 2000 and ending December 31, 2000.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

✓ FG
11/1/99
5 min

PART I: IDENTIFYING INFORMATION

Permit No: 41121954-00

Premise Address: 1465 S. Grand Boulevard, St. Louis, Missouri 63103-1095

Monitoring Period: ☐ (JAN-MAR) ☐ (APR-JUNE) ☒ (JULY-SEPT) ☐ (OCT-DEC)

Samples Collected By: Midwest Testing Laboratories, Incorporated

Analyses Performed By: Midwest Testing Laboratories, Incorporated

PART II: ANALYTICAL RESULTS OF SELF MONITORING

[illegible]

100-443887-100

NOV 01 1999

Environmental Compliance

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and **PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY.** If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. **GO ON TO PART IV.**

A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:



I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 002.

B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:



I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.

C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:



I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.

D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:



I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.

E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:



I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.

F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:



I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.

G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:



Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. **Everyone must complete the information under statement B and sign this report.**

A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:



In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. Julius

Title: Director Safety and Security

Telephone: (314) 268-4117

Signature: Kevin R. Julius

Date: 10-7-99

METROPOLITAN ST. LOUIS SEWER DISTRICT
INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITAL

Permit No: 41121954-00

Premise Address: 1465 SOUTH GRAND BOULEVARD

Reporting Period: ☐ JAN-MAR) ☐ (APR-JUNE) ☒ (JULY-SEPT) 1999 ☐ (OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
<u>I₁₂₅</u>	<u>0.543</u>
<u>Radioactive Nuclides discharged by St Louis University</u>	<u>0.000</u>
TOTAL ACTIVITY DISCHARGED:	<u>0.543</u>

PART III: CERTIFICATION STATEMENTS

Place your initials in the boxes under item A which apply to you. Everyone must complete the information under item B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS

☒ I certify that to the best of my knowledge and belief, all requirements of 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for materials regulated by the Missouri Department of Health have been met for the period covered by this report.

☒ I certify that to the best of my knowledge and belief, all requirements of 10 CFR Part 20.2003 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry to the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. Julius

Title: Director, Safety and Security

Telephone: (314) 268-4117

Signature: Kevin R. Julius

Date: 10-7-99 **RECEIVED**

NOV 01 1999

Environmental Compliance

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: August 12, 1999

Lab. No.: 99MT0318

Invoice No.: 0301

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE I.D.: Sample Point Ref. Number: 001
Wastewater 7:30 a.m. / 07-30-99 to 4:30 p.m. / 07-30-99
Grab Sample 7:30 a.m. / 07-30-99

DATE ANALYZED: 07-30-99 to 08-11-99

RESULTS: mg/L Except as noted:

ANALYTE		MDL	METHOD NUMBER
Oil & Grease	15	5	413.1
BOD	285	10	405.1
COD	519	10	410.1
TSS	176	5	160.2
Temperature (Degrees C)	28.8	.1	170.1
pH (Std Units)	7.99	.02	150.1
Silver	.02	.01	272.1

MDL: Method Detection Limit

Identification of tested specimens provided by the client

MIDWEST TESTING LABORATORIES, INC.

Victor V. Gorostiza
VICTOR V. GOROSTIZA
Laboratory Director

RECEIVED

NOV 01 1999

Environmental Compliance



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

November 17, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

Under the terms and conditions of the above referenced permit, you are required to self-monitor Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive discharge report for third quarter of 2000 was due by October 28, 2000.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The third quarter radioactive discharge report has not been received by the District. This is in violation of permit standard condition I.A.1 and permit special condition II.B.2 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the third quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

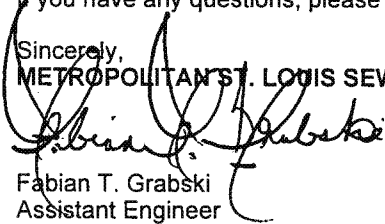
Submit the third quarter 2000 radioactive discharge report and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403.. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your third quarter 2000 report and corrective action response by December 4, 2000.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

bv

pc: suspense file

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☒ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 001.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. Julius

Title: Director, Safety & Security Telephone: 314 268-4117

Signature: Kevin R. Julius Date: 10-11-00

MIDWEST TESTING LABORATORIES

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: October 5, 2000

Lab. No.: 2000MT0451

Invoice No.: 2000472

P.O. No.: 1407

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Blvd.
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Kevin R. Julins

REPORT OF TESTS

SAMPLE MATRIX: WATER

SAMPLE ID. : WASTE WATER-COMPOSITE AND GRAB

SAMPLE DATE : 09-28-00 / 7:30 A.M. to 3:30 P.M.

DATE ANALYZED: 09-28-00 to 10-05-00

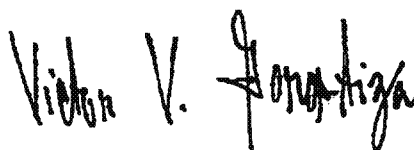
RESULTS: mg/L OR PARTS PER MILLION (PPM)

ANALYTE		MDL	METHOD NUMBER
Temperature (Degrees C)	24.6	0.1	170.1
pH (Std Units)	8.14	0.02	150.1
BOD	135	10	405.1
COD	304	10	410.1
TSS	260	5	160.2
Silver	0.29	0.01	272.1
Oil & Grease	19	5	1664

ND: Not Detected / MDL: MethodDetectionLimit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES, INC.



VICTOR V. GOROSTIZA
Laboratory Director

YEAR 0000

CARDINAL GLENNON CHILDREN'S HOSPITAL

RIA INVENTORIES

ASSAY LOT #	uC1	DATE REC'D	DATE DISPOSED
AUSAB	5	1-3-00	1-14-00
AUSRIA (1)	30	1-8-00	1-24-00
BH TRO24	10	1-4-00	2-29-00
HGH	5	1-4-00	2-29-00
AUSRIA	15	1-7-00	2-29-00
Conat	15	1-7-00	2-29-00
Ausab	15	1-7-00	2-29-00
Busab	15	1-26-00	3-15-00
HGH	5	1-31-00	3-15-00
T3	7	2-11-00	3-31-00
Ausab	15	2-21-00	3-31-00
Ausab	15	3-20-00	3-19-00 4-19-00
HGH	5	4-4-00	5-28-00
T3	7	4-6-00	5-24-00
HGH	5	5-4-00	6-12-00
Ausab	15	5-18-00	6-12-00
HGH	5	5-9-00	6-13-00
T34	7	recd 6-20/00 exp	7-25-00
AUSAB	15	rec 6-30/00 exp 6/30/00	6-30-00
AUSAB	15	6/14/00	6-19-00
AUSAB	15	6/20/00	7-23-00
HGH	5	6/14/00	7-10-00
HGH	5	7-10-00	7-31-00
T34	7	7-28-00	9-12-00
AUSAB	15	7/29/00	9-7-00
HGH	5	8/11/00	8-28-00
HGH	5	8/15/00	8-28-00
T34	7	9-7-00 exp 11-14	
HGH	5	9/2/00	9-30-00
HGH	5	10/4/00	
AUSAB	15	9/5/00	9-30-00
AUSAB	15	10/2/00	
HGH	5	10-18-00	9-30-00
HGH	5	10-18-00	9-30-00
AUSAB	15	10-18-00	11-13-00

**RADIATION SAFETY OFFICE
INTEROFFICE MEMORANDUM**

DATE: October 5, 2000

TO: Mr. Kevin Julius
Facilities and Compliance Manager
Facilities Department
Cardinal Glennon Hospital

FROM: Kevin Ferguson *KF*
Health Physicist
Radiation Safety Office

SUBJECT: Sewer Discharges Of Radioactive Material and Quarterly Metropolitan St. Louis
Sewer District (MSD) Reports

As agreed to in the meeting between Mr. Mark Haenchen, Radiation Safety Officer and Mr. Al Wittrock, Safety Director on November 7, 1995, I am forwarding this notice that there were no discharges of radioactive materials from any of the Cardinal Glennon basement laboratories over which the Saint Louis University Radiation Safety Office maintains surveillance. This statement applies for the period beginning July 1, 2000 and ending September 30, 2000.

We will continue to report the discharges from the Pediatric Research Institute to MSD, as we have in the past. If you wish to have a copy of the report for the PRI, please give me a call at 577-8609.

METROPOLITAN ST. LOUIS SEWER DISTRICT

INDUSTRIAL USER RADIOACTIVE MATERIALS DISCHARGE REPORT

PART I: IDENTIFYING INFORMATION

Company Name: CARDINAL GLENNON CHILDREN'S HOSPITALPermit No: 41121954-00Premise Address: 1465 SOUTH GRAND BOULEVARDReporting Period: ☐ JAN-MAR ☒ (APR-JUNE) ☐ (JULY-SEPT) ☐ (OCT-DEC)

PART II: RECORD OF DISPOSAL OF RADIOACTIVE MATERIALS TO THE SEWER SYSTEM

RADIONUCLIDE	ACTIVITY DISCHARGED (millicuries)
<u>I 125</u>	<u>252 uCi</u>
<u>Radioactive Materials discharged by</u>	
<u>Saint Louis University</u>	<u>0.002</u>
TOTAL ACTIVITY DISCHARGED:	<u>252 uCi</u>

PART III: CERTIFICATION STATEMENTS

Place your initials in the boxes under item A which apply to you. Everyone must complete the information under item B and sign this report.

A. CERTIFICATION OF COMPLIANCE WITH STATE AND FEDERAL REGULATIONS



I certify that to the best of my knowledge and belief, all requirements of 19 CSR Part 20-10.090 governing disposal by release into sanitary sewage for materials regulated by the Missouri Department of Health have been met for the period covered by this report.



I certify that to the best of my knowledge and belief, all requirements of 10 CFR Part 20.2003 governing disposal by release into sanitary sewage for material regulated by the Nuclear Regulatory Commission have been met for the period covered by this report.

B. RADIOACTIVE MATERIALS DISCHARGE REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry to the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. JuliusTitle: Dir. Safety/SecurityTelephone: 268-4117Signature: Kevin R. JuliusDate: 7-24-02

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☒ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) PC1, Q22.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print or type name of signing official: Kevin R. Julius

Title: Director of Safety/Security

Telephone: 268-4117

Signature: Kevin R. Julius

Date: 4-24-00

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 10, 2000

Lab. No.: 2000MT0101

Invoice No.: 200123

SSM CARDINAL GLENNONS CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63103-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS**SAMPLE MATRIX:** WASTE WATER**SAMPLE I.D.:** Sample Point Ref. Number: 001

Waste Water 7:30 a.m. / 02-29-00 to 4:00 p.m. / 02-29-00

Grab Sample 7:30 a.m. / 02-29-00

Sample Point Ref. Number: 002

Waste Water 7:00 a.m. / 02-29-00 to 4:00 p.m. / 02-29-00

Grab Sample 7:00 a.m. / 02-29-00

DATE ANALYZED: 02-29-00 to 03-06-00**RESULTS:** mg/L OR PARTS PER MILLION (PPM)

ANALYTE	001	002 003	MDL	METHOD NUMBER
Oil & Grease	16	14	5	1664
BOD	75	56	10	405.1
COD	195	182	10	410.1
TSS	90	100	5	160.2
Temperature (Degrees C)	22.5	15.8	0.1	170.1
pH (Std Units)	6.54	7.64	0.02	150.1
Silver	0.04	ND	0.01	272.1

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client

RESULTS: ug/L OR PPM PER BILLION (PPB)
VOLATILE ORGANICS

ANALYTE	001	002	MDL
Dichlorodifluoromethane	ND	ND	5.0
Chloromethane	ND	ND	5.0
Vinyl Chloride	ND	ND	5.0
Bromomethane	ND	ND	5.0
Chloroethane	ND	ND	5.0
Trichlorofluoromethane	ND	ND	5.0
1,1'-Oxybis-ethane	ND	ND	5.0
Acrolein	ND	ND	100
Acetone	ND 99.4	ND	10.0
1,1-Dichloroethene	ND	ND	5.0
Iodomethane	ND	ND	5.0
Allyl Chloride	ND	ND	5.0
Carbon Disulfide	ND	ND	5.0
Methylene Chloride (K)	ND	ND	5.0 2.01
Acrylonitrile	ND	ND	5.0
2-Methoxy-2-Methylpropane	ND	ND	5.0
Hexane	ND	ND	5.0
Trans-1,2-Dichloroethene	ND	ND	5.0
Vinyl Acetate	ND	ND	5.0
1,1-Dichloroethane	ND	ND	5.0
2-Butanone	ND	ND	5.0
Propionitrile	ND	ND	5.0
2,2-Dichloropropane	ND	ND	5.0
cis-1,2-Dichloroethene	ND	ND	5.0
Methacrylonitrile	ND	ND	5.0
2-Propenic acid, methyl ester	ND	ND	5.0

MIDWEST TESTING LABORATORIES

INFORMATION

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
Chloroform (25)	ND	ND	502.01
Bromochloromethane	ND	ND	5.0
Tetrahydrofuran	ND	ND	5.0
1,1,1-Trichloroethane	ND	ND	5.0
1-Chlorobutane	ND	ND	5.0
Heptane	ND	ND	5.0
1,1-Dichloropropene	ND	ND	5.0
Carbon Tetrachloride	ND	ND	5.0
1,2-Dichloroethane	ND	ND	5.0
Benzene	ND	ND	5.0
Trichloroethene	ND	ND	5.0
1,2-Dichloropropane	ND	ND	5.0
Methyl methacrylate	ND	ND	5.0
Bromodichloromethane	ND	ND	5.0
Dibromomethane	ND	ND	5.0
2-Nitropropane	ND	ND	5.0
2-Chloroethyl vinyl ether	ND	ND	5.0
1,1-Dichloro-2-Propanone	ND	ND	5.0
cis-1,3-Dichloropropene	ND	ND	5.0
Ethyl Methacrylate	ND	ND	5.0
Trans 1,3-Dichloropropene	ND	ND	5.0
1,1,2-Trichloroethane	ND	ND	5.0
2-Hexanone	ND	ND	5.0
1,3-Dichloropropane	ND	ND	5.0
Dibromochloromethane	ND	ND	5.0
Bromoform	ND	ND	5.0
4-Methyl-2-Pentanone	ND	ND	5.0
Toluene	ND	ND	2.0
Tetrachloroethene	ND	ND	5.0
1,2-Dibromoethane	ND	ND	5.0
Chlorobenzene	ND	ND	5.0
1,1,1,2-Tetrachloroethane	ND	ND	5.0
Ethylbenzene (KA)	27.3	ND	5.0
m,p-Xylenes	53.7	ND	5.0
o-Xylene	57.8	ND	5.0
Styrene	ND	ND	5.0
Isopropylbenzene	ND	ND	5.0
1,1,2,2-Tetrachloroethane	ND	ND	5.0
1,2,3-Trichloropropane	ND	ND	5.0
1,4-Dichloro-2-butene	ND	ND	5.0
n-Propylbenzene	ND	ND	5.0
Bromobenzene	ND	ND	5.0
1,3,5-Trimethylbenzene	ND	ND	5.0
2-Chlorotoluene	ND	ND	5.0
4-Chlorotoluene	ND	ND	5.0

MIDWEST TESTING LABORATORIES

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
tert-Butylbenzene	ND	ND	5.0
1,2,4-Trimethylbenzene	ND	ND	5.0
Pentachloroethane	ND	ND	5.0
sec-Butylbenzene	ND	ND	5.0
p-Isopropyltoluene	ND	ND	5.0
1,3-Dichlorobenzene	ND	ND	5.0
1,4-Dichlorobenzene	ND	ND	5.0
n-Butylbenzene	ND	ND	5.0
1,2-Dichlorobenzene	ND	ND	5.0
Hexachloroethane	ND	ND	5.0
1,2-Dibromo-3-chloropropane	ND	ND	5.0
Nitrobenzene	ND	ND	5.0
1,2,4-Trichlorobenzene	ND	ND	5.0
Hexachlorobutadiene	ND	ND	5.0
Naphthalene	ND	ND	5.0
1,2,3-Trichlorobenzene	ND	ND	5.0

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES

INDEPENDENT

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 10, 2000

Lab No.: 2000MT0101

Invoice No.: 200123

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE LD. : Sample Point Ref. Number: 001 Waste Water Grab, 7:30 a.m. / 02-29-00

Sample Point Ref. Number: 002 Waste Water Grab, 7:00 a.m. / 02-29-00

DATE EXTRACTED : 03-01-00

DATE ANALYZED : 03-01-00

METHOD REF. : EPA 600 METHOD 625

RESULTS: mg/L OR PARTS PER MILLION (PPM)

SEMI - VOLATILE ORGANICS

ANALYTE	001	002	MDL
bis- (Chloromethyl) - ether	ND	ND	0.010
Pyridine	ND	ND	0.010
Aniline	ND	ND	0.010
Benzyl alcohol	ND	ND	0.010
Phenol	ND	ND	0.010 / 0.01
2-Chlorophenol	ND	ND	0.010
bis- (2-Chloroethyl) ether	ND	ND	0.010
N-nitrosodimethylamine	ND	ND	0.010
bis- (2-Chloroisopropyl) ether	ND	ND	0.010
N-Nitroso-di-n-propylamine	ND	ND	0.010
1,3-Dichlorobenzene	ND	ND	0.010
1,4-Dichlorobenzene	ND	ND	0.010
1,2-Dichlorobenzene	ND	ND	0.010
o-Cresol	ND	ND	0.010
m,p-Cresol	ND	ND	0.010
Hexachloroethane	ND	ND	0.010
Nitrobenzene	ND	ND	0.010
2,4-Dimethylphenol	ND	ND	0.010
4-Chloroaniline	ND	ND	0.010
2-Nitrophenol	ND	ND	0.010
2,4-Dichlorophenol	ND	ND	0.010
Benzoic acid	ND	ND	0.050
4-Chloro-3-methylphenol	ND	ND	0.010
bis (2-Chloroethoxy) methane	ND	ND	0.010
Isophorone	ND	ND	0.010

MIDWEST TESTING LABORATORIES

INCORPORATED

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
1,2,4-Trichlorobenzene	ND	ND	0.010
2-Methylnaphthalene	ND	ND	0.010
Hexachlorocyclopentadiene	ND	ND	0.010
Naphthalene	ND	ND	0.010
Hexachlorobutadiene	ND	ND	0.010
2,4,6-Trichlorophenol	ND	ND	0.010
2,4,5-Trichlorophenol	ND	ND	0.010
2-Nitroaniline	ND	ND	0.010
3-Nitroaniline	ND	ND	0.010
4-Nitroaniline	ND	ND	0.010
2,4-Dinitrophenol	ND	ND	0.010
4-Nitrophenol	ND	ND	0.010
4,6-Dinitro-2-methylphenol	ND	ND	0.010
2-Chloronaphthalene	ND	ND	0.010
4-Chlorophenyl phenyl ether	ND	ND	0.010
Dimethyl phthalate	ND	ND	0.010
2,6-Dinitrotoluene	ND	ND	0.010
Acenaphthylene	ND	ND	0.010
Dibenzofuran	ND	ND	0.010
Diethyl phthalate	ND	ND	0.010
Acenaphthene	ND	ND	0.010
Benzo(g,h,i)perylene	ND	ND	0.010
Fluorene	ND	ND	0.010
Azobenzene	ND	ND	0.010
2,4-Dinitrotoluene	ND	ND	0.010
Hexachlorobenzene	ND	ND	0.010
Pentachlorophenol	ND	ND	0.010
N-Nitrosodiphenylamine	ND	ND	0.010
4-Bromophenyl phenyl ether	ND	ND	0.010
Carbazole	ND	ND	0.010
Di-n-butyl phthalate	ND	ND	0.010
Phenanthrene	ND	ND	0.010
Anthracene	ND	ND	0.010
Fluoranthene	ND	ND	0.010
Butyl benzyl phthalate	ND	ND	0.010
bis (2-ethylhexyl) phthalate	ND	ND	0.010
Pyrene	ND	ND	0.010
Benzo(a)anthracene	ND	ND	0.010
Chrysene	ND	ND	0.010
3,3'-Dichlorobenzidine	ND	ND	0.010
Di-n-octyl phthalate	ND	ND	0.010
Benzidine	ND	ND	0.010
Benzo(b)fluoranthene	ND	ND	0.010
Benzo(k)fluoranthene	ND	ND	0.010
Benzo(a)pyrene	ND	ND	0.010

**MIDWEST TESTING LABORATORIES****INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

ANALYTE	001	002	MDL
Dibenzo(a,h)anthracene	ND	ND	0.010
Indeno(1,2,3-cd)pyrene	ND	ND	0.010

ND: Not Detected / MDL: Method Detection Limit

Identification of tested specimens provided by the client.

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 10, 2000

Lab. No.: 2000MT0101

Invoice No.: 200123

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE LD. : Sample Point Ref. Number: 001 Waste Water Grab, 7:30 a.m. / 02-29-00

DATE EXTRACTED : 03-02-00

DATE ANALYZED : 03-03-00

RESULTS: ug/L OR PARTS PER BILLION (PPB)

**ORGANOCHLORINE PESTICIDE ANALYSIS
SW-846 METHOD 8081**

ANALYTE	001	MDL
Aldrin	ND	0.016
alpha-BHC	ND	0.007
beta-BHC <i>KA</i>	0.061 < .01	0.016
gamma-BHC (Lindane)	ND	0.007
delta-BHC	ND	0.022
Chlordane	ND	0.015
4,4'-DDD	ND	0.016
4,4'-DDE	ND	0.009
4,4'-DDT <i>KA</i>	0.178 < .01	0.016
Dieldrin	ND	0.007
Endosulfan I	ND	0.016
Endosulfan II	ND	0.009
Endosulfan Sulfate	ND	0.082
Endrin <i>KA</i>	0.032 < .01	0.016
Endrin Aldehyde	ND	0.082
Heptachlor	ND	0.022
Heptachlor Epoxide	ND	0.082
Methoxychlor	ND	0.109
Toxaphene	ND	0.262

ND: Not detected / MDL: Method Detection Limit

MIDWEST TESTING LABORATORIES**INCORPORATED**

2645 Gravois Avenue • St. Louis, MO 63118 • (314) 773-3035 • FAX (314) 773-3519

Date: March 10, 2000

Lab. No.: 2000MT0101

Invoice No.: 200123

SSM CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, Missouri 63104-1095

ATTENTION: Mr. Kevin Julius

REPORT OF TESTS

SAMPLE MATRIX : WASTE WATER

SAMPLE LD. : Sample Point Ref. Number: 002 Waste Water Grab, 7:00 a.m. / 02-29-00

DATE EXTRACTED : 03-02-00

DATE ANALYZED : 03-03-00

RESULTS: ug/L OR PARTS PER BILLION (PPB)

ORGANOCHLORINE PESTICIDE ANALYSIS**SW-346 METHOD 8081**

ANALYTE	002	MDL
Aldrin	ND	0.324
alpha-BHC	ND	0.130
beta-BHC	ND	0.324
gamma-BHC (Lindane)	ND	0.130
delta-BHC	ND	0.432
Chlordane	ND	0.302
4,4'-DDD	ND	0.324
4,4'-DDE	ND	0.173
4,4'-DDT	ND	0.324
Dieldrin	ND	0.130
Endosulfan I	ND	0.324
Endosulfan II	ND	0.173
Endosulfan Sulfate	ND	1.62
Endrin	ND	0.324
Endrin Aldehyde	ND	1.62
Heptachlor	ND	0.432
Heptachlor Epoxide	ND	1.62
Methoxychlor	ND	2.16
Toxaphene	ND	5.18

ND: Not detected / MDL: Method Detection Limit

INDUSTRIAL USER SELF MONITORING REPORT PAGE 2

PART III: SPECIAL CERTIFICATION STATEMENTS

Based on the special conditions contained in your discharge permit you may be required to certify one or more of the following. Please review your permit and PLACE YOUR INITIALS IN THE BOXES NEXT TO THOSE CERTIFICATIONS WHICH ARE APPLICABLE TO YOUR FACILITY. If your permit contains no Special Conditions, then none of the certifications in PART III apply to you. GO ON TO PART IV.

- A. If your permit special conditions waive monitoring at any sample point(s) specified in your permit, you are required to make the following certification:
- ☒ I certify, since the last discharge monitoring report, there has been no change in the character of the wastes discharged at sampling point(s) 001.
- B. If your permit special conditions waive monitoring at active connection points which are not specified as sample points in your permit, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no change in the character of wastes discharged at those active connection points which are not specified in my permit.
- C. If your permit special conditions waive monitoring at inactive connection points, you are required to make the following certification:
- ☐ I certify, since the permit issue date, there has been no change in the status of connection points identified as inactive. These points remain inactive and no discharge occurred during the period covered by this report.
- D. If your permit special conditions authorize grab sample collection in lieu of composite sampling at any sample point(s), you are required to make the following certification:
- ☐ I certify the grab sample results in this report accurately represent our average daily discharge at sample point(s) _____.
- E. If your permit special conditions prohibit discharge of wastes which are subject to certain categorical pretreatment standards, you are required to make the following certification:
- ☐ I certify, since the last discharge monitoring report, there has been no discharge of wastes which are subject to pretreatment standards in 40 CFR _____.
- F. Discharges subject to Pharmaceutical Categorical Standards (40 CFR 439) can be exempted from limitations and monitoring for Total Cyanide at the Pharmaceutical sample point(s) subject to the following certification:
- ☐ I certify, since the last discharge monitoring report, cyanide has not been used or generated in any pharmaceutical manufacturing process subject to Categorical Standards in 40 CFR 439.
- G. Discharges Subject to Categorical Standards for Electroplating (40 CFR 413), Metal Finishing (40 CFR 433) or Electrical & Electronic Components (40 CFR 469) can be exempted from TTO monitoring only at the Electroplating, Metal Finishing or Electrical & Electronic Components sample point(s) subject to the following certification:
- ☐ Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewater has occurred since filing the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to MSD.

PART IV: GENERAL CERTIFICATION STATEMENTS

Initial the box for statement A if it applies to you. Everyone must complete the information under statement B and sign this report.

- A. Discharges at sample points subject only to MSD Ordinance limits can be exempted from TTO monitoring subject to the following certification:
- ☐ In lieu of monitoring for TTO at sample point(s) _____, I certify that to the best of my knowledge and belief, no toxic organics have been used at this premise or discharged into the wastewaters since filing of the last discharge monitoring report.

B. DISCHARGE MONITORING REPORT CERTIFICATION

I certify under penalty of Law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

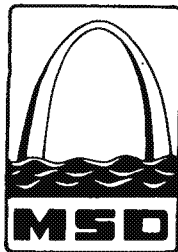
Print or type name of signing official: Kevin R Julius

Title: Director of Security/safety

Telephone: 268-4117

Signature: Kevin R Julius

Date: 7-2-00



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

August 18, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

The Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling points. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for second quarter of 2000 was due by July 28, 2000.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The second quarter self-monitoring report has not been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling points. Since no report was submitted, you did not satisfy the second quarter's reporting requirements.

The reporting requirements of your permit also includes completing a certain certification for each quarter. Even if sampling and analytical requirements can not be met, the report should still be submitted with the applicable certification completed. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

Submit the second quarter 2000 report with the applicable certifications completed, any available second quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your second quarter report and corrective action response by August 28, 2000.

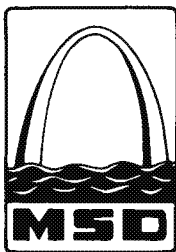
If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

dss

pc: Suspense file
Jim Goodall



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

August 14, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

Under the terms and conditions of the above referenced permit, you are required to self-monitor Cardinal Glennon Children's Hospital's radioactive discharge to the municipal sewer. The results are to be reported quarterly. Your radioactive discharge report for second quarter of 2000 was due by July 28, 2000.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The second quarter radioactive discharge report has not been received by the District. Please note that this is the third consecutive reporting period in which no radioactive report was submitted. This is in violation of permit standard condition I.A.1 and permit special condition II.B.2 which require sampling and analyses for all regulated substances at the frequencies specified in your permit. Since no report was submitted, you did not satisfy the second quarter's reporting requirements.

REQUIRED ACTION/RESPONSE:

Submit the fourth quarter 1999 radioactive discharge report, the first and second quarter's 2000 radioactive discharge reports, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your fourth quarter 1999 report, first and second quarter's 2000 reports and corrective action response by August 25, 2000.

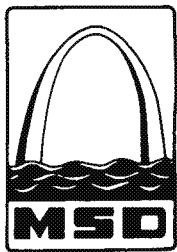
If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

ldl

pc: suspense file



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

May 15, 2000

Kevin R. Julius
Facilities Compliance Manager
CARDINAL GLENNON CHILDREN'S HOSPITAL
1465 S. Grand Boulevard
St. Louis, MO 63104

RE: NOTICE OF PERMIT VIOLATIONS

Discharge Permit No: 41121954-00
For premise at: 1465 S. Grand Boulevard

Dear Mr. Julius:

Under the terms and conditions of the above referenced permit, you are required to self-monitor the discharge at the identified sampling points. Monitoring is to be performed for the parameters listed and at the frequency specified in the permit. The results are to be reported quarterly. Your report for first quarter of 2000 was due by April 28, 2000.

VIOLATIONS OF PERMIT TERMS/CONDITIONS:

The first quarter self-monitoring report has not been received by the District. This is in violation of permit standard condition I.A.1 which requires sampling and analyses for all regulated substances at the frequencies specified at your sampling points. Since no report was submitted, you did not satisfy the first quarter's reporting requirements.

The reporting requirements of your permit also includes completing a certain certification for each quarter. Even if sampling and analytical requirements can not be met, the report should still be submitted with the applicable certification completed. The violation will then be recorded as an incomplete report rather than "no report".

REQUIRED ACTION/RESPONSE:

Submit the first quarter 2000 report with the applicable certifications completed, any available first quarter self-monitoring data, and a report of corrective actions, which you have initiated, to ensure that the reporting requirements will be met in future reporting quarters.

Failure to perform the monitoring and reporting requirements of your permit places your company in Significant Noncompliance (SNC), as defined in District ordinance 8472 and federal pretreatment regulations 40 CFR 403. SNC companies are subject to enforcement action by the District. At a minimum, the District is required to list SNC companies in an annual newspaper publication.

Please submit your first quarter report and corrective action response by May 22, 2000.

If you have any questions, please contact me at 436-8756.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Fabian T. Grabski
Assistant Engineer

ldl

pc: Suspense file

cc: Jim Goodall



**Metropolitan
St. Louis Sewer
District**

Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913
(314) 436-8710
FAX (314) 436-8753

February 8, 2000

Kevin Ferguson
ST. LOUIS UNIVERSITY HEALTH SCIENCES CENTER
1402 S. Grand
Doisy Bldg, Room RB5
St. Louis, MO 63104-1028

Re: Anheuser-Busch Institute
Cardinal Glennon Children's Hospital
Institute for Molecular Virology
Pediatric Research Institute
St. Louis University
St. Louis University Health Sciences Center
St. Louis University Hospital
St. Louis University Medical School
St. Louis University Storage Bldg.

Dear Mr. Ferguson:

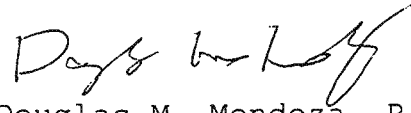
As you may be aware, the Metropolitan St. Louis Sewer District prohibits the discharge of radioactive material to the sewer system, except those discharges specifically approved by the District. The facilities referenced above have such approvals. As part of the approval, you are required to complete and submit Industrial User Radioactive Materials Discharge Reports each quarter.

We have recently revised the Discharge Report. Under Part III.A of the report, the Certification of Compliance with State and Federal Regulations has been modified so that now only a single certification is required. The previous version of the report required two separate certifications, which resulted in some companies failing to make the correct certification.

A copy of the revised report is enclosed for your use. Please begin using the revised report immediately. You should discard all copies of the previous version.

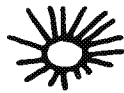
If you have any questions, please contact me at 314-436-8717.

Sincerely,
METROPOLITAN ST. LOUIS SEWER DISTRICT


Douglas M. Mendoza, P.E.
Industrial Waste Engineer

Enclosure - revised Radioactive Discharge Report

pc Permits Unit



SSM Cardinal Glennon Children's Hospital

January 26, 2000

Fabian T. Grabski
Assistant Engineer
Metropolitan St. Louis Sewer District
Department of Environmental Compliance
10 East Grand Avenue
St. Louis, MO 63147-2913

RE: Industrial User Questionnaire
Discharge Permit No: 41121954-00
For premises at: 1465 So. Grand Blvd.

Dear Mr. Grabski:

Thank you for your January 4, 2000 letter identifying items that needed further information or correction on pages 3 and 4 of the IUQ. Those items identified have been corrected on pages 3 and 4 provided by you and are enclosed.

Please call me at 268-4117 if you have further questions or concerns.

Sincerely,

Kevin R. Julius
Cardinal Glennon Children's Hospital

Enclosures

RECEIVED

JAN 28 2000

Environmental Compliance

. Name: SSM Cardinal Glennon

ct #: 4112195400

OLDER
CORRESPONDENCE
FROM

97

THRU

99

01-22-15 Moved to ARCHIVED PERMIT files. MI